

Красители и морилки в порошке STA

Технические характеристики

Виды товаров: фенантролин моногидрат, дифенилкарбазид, акрифлавин, ализарин, амарант, амидо черный, аммоний пурпурный, аурамин, берберина гидрохлорид, бибрих скарлет, бисмарк браун, бриллиантовый синий, индикатор бриллиантовый зеленый, ярко-желтый индикатор, бромфеноловый синий, бром пирогаллол, бромтимоловый синий, натриевая соль бромтимолового синего, калькон карбоновая кислота, индикатор калмагита, карболовый фуксин, карминовая кислота, хромотроп, хризодин, конго красный индикатор, хлопок синий, индикатор pH крезоловый красный, крезоловый красный, куркумин кристаллический, диметиловый желтый, эозин, эрихром, эриоглауцин динатриевая соль, эритрозин, эванс синий, быстрый сульфид, пятно по Филду, флуоресцеин комплексон, флуоресцеин натрия, фуксиновая кислота, фуксин, генциановый фиолетовый, гематоксилин моногидрат, индикатор гидроксинафтоловый, индигокармин, янус грин б, окраска по Дженнеру, по Лейшману, по Гимзе, лакмус, малахитовый зеленый, мартиус желтый, окраска по Мэй и Грюнвальд, м-крезоловый пурпурный, метанил желтый, метилоранж, метиловый красный, метилтимоловый синий, метиловый фиолетовый, метиленовый синий, индикатор м-нитрофенола, нафтоловый зеленый б, неотетразолия хлорид, новый фуксин, нигрозин, нильский голубой хлорид, сульфат нильского голубого, п-фенилантрахиноновая кислота, о-крезолфталеин комплексон, оранжевый, орсеин, индикаторный реагент рап аг, индикатор раг аг, парарозанилин, парарозанилина гидрохлорид, патентованный синий, реагент паттона и ридера, п-диметиламинобензидин роданин, фенол красный, порошок фенолфталеина, флоксин, понсо с, индикатор р-ксиленоловый синий, пирогаллол, резазурина натриевая соль, родамин, роуз бенгальский, росалиевая кислота, солохром, судан, тартразин, тимоловый синий, тимолфталеин комплексон, индикатор тирон, титановый желтый, толудиновый синий, трипановый синий, окраска по Райту, ксилон цианол, ксилитиновый понсо, α-нафтол бензеин, α-нафтолфталеин и др.

По вопросам продаж и поддержки обращайтесь:

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Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
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Dyes & Stains Powder



CODE	PRODUCT NAME	CAS NO.
STA318	1,10-Phenanthroline Monohydrate AR	5144-89-8
STA113	1,5-Diphenyl Carbazide	140-22-7
STA114	1,5-Diphenyl Carbazide AR	140-22-7
STA117	1,5-Diphenyl Carbazone	538-62-5
STA118	1,5-Diphenyl Carbazone AR	538-62-5
STA099	2,7-Dichloro Fluorescein AR	76-54-0
STA002	Acridine Orange	10127-02-3
STA005	Acriflavine for Biochemistry	8048-52-0
STA003	Alcian Blue 8 GX for Microscopy	33864-99-2
STA008	Alizarin (pH indicator) AR	72-48-0
STA006	Alizarin Complexone	3952-78-1
STA007	Alizarin Red S (pH indicator)	130-22-3

STA009	Alizarin Red S AR	130-22-3
STA011	Alkali Blue 6B (pH Indicator)	1324-76-1
STA010	Amaranth	915-67-3
STA012	Amido Black 10 B	1064-48-8
STA015	Ammonium Purpurate	3051-09-0
STA018	Aniline Blue for Microscopy	28983-56-4
STA020	Auramine for Microscopy	2465-27-2
STA028	Azur A for Microscopy	531-53-3
STA029	Azur B for Microscopy	531-55-5
STA024	Azur II Eosine for Microscopy	53092-85-6
STA023	Azur II for Microscopy	37247-10-2
STA030	Berberine Hydrochloride	633-65-8
STA031	Biebrich Scarlet (W.S.)	4196-99-0
STA035	Bismarck Brown R for Microscopy	5421-66-9
STA036	Bismark Brown Y for Microscopy	10114-58-6
STA038	Brilliant Blue G 250 for Electrophoresis	6104-58-1
STA037	Brilliant Blue R 250 for Electrophoresis	6104-59-2
STA039	Brilliant Cresyl Blue Indicator	81029-05-2
STA042	Brilliant Green Indicator for Microscopy	633-03-4

STA045	Brilliant Yellow Indicator	3051-11-4
STA048	Bromo Cresol Green Indicator AR	76-60-8
STA049	Bromo Cresol Green Sodium AR	62625-32-5
STA051	Bromo Cresol Purple Indicator AR	115-40-2
STA052	Bromo Phenol Blue Indicator AR	115-39-9
STA053	Bromo Phenol Blue Sodium Salt	34725-61-6
STA054	Bromo Pyrogallol Red AR	16574-43-9
STA055	Bromo Thymol Blue (pH Indicator) AR	76-59-5
STA056	Bromo Thymol Blue Sodium Salt (W.S.)	34722-90-2
STA058	Calcon Carboxylic Acid AR	3737-95-9
STA059	Calmagite Indicator AR	3147-14-6
STA060	Carbol Fuchsin Powder for Microscopy	4197-24-4
STA065	Carmine Stains for Microscopy	1390-65-4
STA067	Carminic Acid AR for Microscopy	1260-17-9
STA070	Chloro Phenol Red Indicator AR	4430-20-0
STA073	Chromotrope 2R for Microscopy	4197-07-3
STA075	Chrysodine R for Microscopy	4438-16-8
STA076	Chrysodine Y for Microscopy	532-82-1
STA078	Congo Red Indicator	573-58-0

STA079	Cotton Blue for Microscopy
STA088	Cresol Red pH Indicator AR
STA089	Cresol Red Sodium Salt
STA091	Crystal Violet for Microscopy
STA093	Curcumin Crystalline
STA108	Dimethyl Yellow (pH Indicator)
STA125	Eosine Blue for Microscopy
STA126	Eosine Spirit Soluble
STA127	Eosine Yellow Indicator for Microscopy
STA130	Erichrome Black T Mixed Triturate
STA131	Eriochrome Black T
STA132	Eriochrome Black T AR
STA133	Eriochrome Cyanine R AR
STA135	Erioglaucine Disodium salt
STA138	Erythrosin B for Microscopy
STA140	Evans Blue for Microscopy
STA147	Fast Green FCF for Microscopy
STA145	Fast Green for Microscopy
STA150	Fast Sulphon Black F

STA152	Field's Stain A
STA153	Field's Stain B
STA158	Fluorescein
STA159	Fluorescein Complexone AR
STA160	Fluorescein Sodium
STA165	Fuchsin Acid for Microscopy
STA166	Fuchsin Basic for Microscopy
STA172	Gentian Violet for Microscopy
STA176	Giemsa's Stain for Microscopy
STA185	Hematoxylin Monohydrate for Microscopy
STA189	Hydroxy Naphthol Blue Indicator AR
STA198	Indigo Carmine for Microscopy AR
STA203	Janus Green B for Microscopy
STA205	Jenner's Stain for Microscopy
STA210	Leishman's Stain for Microscopy
STA148	Light Green SF Yellowish
STA225	Litmus Granular (pH Indicator)
STA235	Malachite Green for Microscopy
STA237	Martius Yellow for Microscopy

STA238	May And Grunwald's Stain for Microscopy
STA085	m-Cresol Purple (pH Indicator) AR
STA241	Metanil Yellow AR
STA245	Methyl Blue for Microscopy
STA253	Methyl Orange (pH Indicator)
STA256	Methyl Red (pH Indicator) AR
STA260	Methyl Thymol Blue Complexone
STA261	Methyl Violet for Microscopy
STA249	Methylene Blue AR
STA248	Methylene Blue for Microscopy
STA250	Methylene Blue Polychrome for Microscopy
STA297	m-Nitro Phenol Indicator
STA273	Naphthol Green B for Microscopy
STA280	Neotetrazolium Chloride AR
STA283	Neutral Red (pH Indicator) AR
STA286	New Fuchsin for Microscopy
STA290	Nigrosin (Water Soluble) for Microscopy
STA289	Nigrosine (Alcohol Soluble) for Microscopy
STA293	Nile Blue Chloride

STA294	Nile Blue Sulphate for Microscopy
STA324	N-Phenyl Anthranilic Acid AR
STA082	o-Cresolphthaleine (pH Indicator)
STA083	o-Cresolphthaleine Complexone
STA300	Oil Red O for Electrophoresis
STA301	Oracet Blue B Indicator
STA303	Orange G Indicator for Microscopy
STA302	Orange II
STA304	Orcein for Microscopy
STA305	PAN Indicator Reagent AR
STA306	PAR Indicator AR
STA311	Pararosaniline (Base) for Microscopy
STA312	Pararosaniline Hydrochloride
STA315	Patent Blue V F
STA316	Patton & Reeder's Reagent AR
STA105	p-Dimethyl Amino Benzylidine Rhodanine AR
STA322	Phenol Red (pH Indicator) AR
STA323	Phenol Red Sodium Salt AR
STA321	Phenolphthalein Powder (pH Indicator)

STA327	Phloxin B for Microscopy
STA330	Ponceau S
STA418	p-Xylenol Blue Indicator AR
STA331	Pyrogallol Red AR
STA333	Resazurin Sodium Salt AR
STA336	Rhodamine 6 G
STA335	Rhodamine B (for Microscopy) AR
STA342	Rose Bengal AR
STA345	Rosolic Acid
STA360	Safranin O for Microscopy
STA363	Solochrome Dark Blue
STA371	Sudan Black B for Microscopy
STA367	Sudan I
STA368	Sudan III for Microscopy
STA369	Sudan IV for Microscopy
STA373	Sudan Yellow
STA380	Tartrazine for Microscopy
STA383	Thymol Blue (pH Indicator) AR
STA387	Thymolphthalein (pH Indicator) AR

STA388	Thymolphthalein Complexone
STA390	TIRON Indicator
STA392	Titan Yellow (pH Indicator) AR
STA395	Toluidine Blue for Microscopy
STA398	Trypan Blue for Microscopy
STA405	Victoria Blue B for Microscopy
STA410	Wright's Stain for Microscopy
STA415	Xylene Cyanol FF
STA421	Xylidine Ponceau for Microscopy
STA270	α -Naphthol Benzein (pH Indicator)
STA276	α -Naphtholphthalein (pH Indicator)

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Cresol Red Sodium Salt
Cat No.	STA089
CAS-No.	62625-29-0
M.W.	404.41
EC-No.	263-654-8
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	62625-29-0
Percent	95.0%
Substance/Mixture	Substance
Synonym	-
Chemical Formula	$C_{21}H_{17}N_4O_5S$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Sulphur oxides, Sodium oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole

Material Safety Data Sheet

Chemistry beyond chemicals



means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	250 °C - dec.
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	no data available
Hazardous decomposition products	Carbon oxides, Sulphur oxides, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Cresol Red (pH Indicator)
Cat No.	STA088
CAS-No.	1733-12-6
M.W.	382.44
EC-No.	217-064-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	1733-12-6
Percent	-
Substance/Mixture	Substance
Synonym	o-Cresol sulfonphthalein
Chemical Formula	C ₂₁ H ₁₈ O ₅ S

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Sulphur oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole

Material Safety Data Sheet

Chemistry beyond chemicals



means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A Green color powder.
Odour	Aromatic
Odour Threshold	no data available
pH	no data available
Melting/freezing point	290 °C decomposes
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20 °C slightly soluble
LogPow	4.3
Auto-ignition temperature	no data available
Decomposition temperature	290 °C
Viscosity	no data available
Explosive properties	Not classified as explosive
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	no data available
Hazardous decomposition products	Sulphur oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good

Material Safety Data Sheet

Chemistry beyond chemicals



Hazard class -
Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Cotton Blue for Microscopy
Cat No. STA079
CAS-No. 28983-56-4
M.W. 799.80
EC-No. 249-352-9
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 28983-56-4
Percent -
Substance/Mixture Substance
Synonym Acid blue 93, Methyl Blue
Chemical Formula $C_{37}H_{27}N_3Na_2O_9S_8$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Specific target organ toxicity - single exposure Category 3
Skin irritation Category 2
Eye irritation Category 2
Acute toxicity, Oral Category 4

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, nitrogen oxides, Sulphur oxides, Sodium oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Remove all sources of ignition. Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid-Brown colour.
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	no data available
Hazardous decomposition products	Carbon oxides, nitrogen oxides, Sulphur oxides, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Material Safety Data Sheet

Chemistry beyond chemicals



Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: Inhalation - May cause respiratory irritation.
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Congo Red Indicator
Cat No. STA078
CAS-No. 573-58-0
M.W. 696.68
EC-No. 209-358-4
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 573-58-0
Percent -
Substance/Mixture Substance
Synonym Acid blue 93, Methyl Blue
Chemical Formula $C_{32}H_{22}N_6Na_2O_6S_2$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Carcinogenicity Category 1B
Reproductive toxicity Category 2

GHS Labels Elements



Pictograms and Hazards Symbols

Signal word Danger

Hazard Statements
H350 May cause cancer.
H361d Suspected of damaging the unborn child.

Precautionary Statements
P201 Obtain special instructions before use.
P281 Use personal protective equipment as required.
P308 +P313 IF exposed or concerned: Get medical advice/attention.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards nitrogen oxides, Sulphur oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.

Material Safety Data Sheet

Chemistry beyond chemicals



Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage condition

Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection

Face shield and safety glasses, if required.

Hand protection

Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection

Impervious protective clothing and boots, if required.

Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

reddish brown powder.

Odour

characteristic

Odour Threshold

no data available

pH

no data available

Melting/freezing point

> 360 °C

Boiling point/range

no data available

Flash point

no data available

Evaporation rate

no data available

Vapour pressure

no data available

Vapour density

no data available

Relative density

no data available

Water solubility

25 g/l at 20 °C

LogPow

no data available

Auto-ignition temperature

no data available

Decomposition temperature

no data available

Viscosity

no data available

Explosive properties

Not classified as explosive

Oxidizing properties

none

SECTION 10: STABILITY AND REACTIVITY

Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Stability

The product is chemically stable under standard ambient conditions (room temperature).

Incompatibilities

no data available

Hazardous decomposition products

nitrogen oxides, Sulphur oxides

Conditions to avoid

no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity: LD50 Rat: 15,200 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory/skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity

Single exposure: no data available

Specific target organ toxicity

Repeated exposure: no data available

Aspiration hazard

no data available

Material Safety Data Sheet

Chemistry beyond chemicals



RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to daphnia and other aquatic invertebrates static test LC50 Daphnia magna (Water flea): 4 mg/l; 48 h

Persistence/degradation

no data available

Environmental

Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number

2811

Proper shipping name

TOXIC SOLID, ORGANIC, N.O.S. (DISODIUM-3,3'-((1,1- BIPHENYL)-4,4'-DIYLBIS(AZO)) BIS (4-AMINONAPHTHALENE-1-SULFONATE))

Hazard class

6.1

Packaging group

III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Chromotrope 2R for Microscopy
Cat No. STA073
CAS-No. 4197-07-3
M.W. 468.37
EC-No. 224-085-0
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 4197-07-3
Percent 75.0%
Substance/Mixture Substance
Synonym Acid red 29
Chemical Formula $C_{16}H_{10}N_2O_6S_2Na_2$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Specific target organ toxicity - single exposure Category 3
Skin irritation Category 2
Eye irritation Category 2

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.
Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.
Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.
Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides, Sulphur oxides, Sodium oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Remove all sources of ignition. Prevent further leakage/spillage. Do not let product enter drains/ivers.
Methods and materials for containment and cleaning up	Discharge into the environment must be avoided. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	powder Dark brown
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	no data available
Hazardous decomposition products	Carbon oxides, Nitrogen oxides, Sulphur oxides, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: May cause respiratory irritation.

Material Safety Data Sheet

Chemistry beyond chemicals



Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Chloro Phenol Red pH Indicator
Cat No.	STA070
CAS-No.	4430-20-0
M.W.	423.28
EC-No.	224-619-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	4430-20-0
Percent	-
Substance/Mixture	Substance
Synonym	("3-3"-Dichlorophenol Sulfonaphthalein)
Chemical Formula	C ₁₉ H ₁₂ Cl ₂ O ₅ S

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Sulphur oxides, Hydrogen chloride gas
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Material Safety Data Sheet

Chemistry beyond chemicals



Skin and Body Protection Respiratory protection

Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	brown colour solid
Odour	phenol-like
Odour Threshold	no data available
pH	no data available
Melting/freezing point	ca. 261 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20 °C insoluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature)
Incompatibilities	no data available
Hazardous decomposition products	Sulphur oxides, Hydrogen chloride gas
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available.
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available.
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Carminic Acid AR for Microscopy
Cat No.	STA067
CAS-No.	1260-17-9
M.W.	492.4
EC-No.	215-023-3
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	1260-17-9
Percent	95.0%
Substance/Mixture	Substance
Synonym	Cochineal; Natural Red 4
Chemical Formula	C ₂₂ H ₂₀ O ₁₃

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Material Safety Data Sheet

Chemistry beyond chemicals



Skin and Body Protection Respiratory protection

Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid , dark red
Odour	like-fruit
Odour Threshold	no data available
pH	ca 1.6 g/l at 20 °C
Melting/freezing point	136 °C (decomposition)
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	ca 30 g/l at 25 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	no data available
Hazardous decomposition products	no data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative Carcinogenicity no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Carmines stains
Cat No.	STA065
CAS-No.	1390-65-4
M.W.	492.39
EC-No.	215-724-4
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	1390-65-4
Percent	-
Substance/Mixture	Substance
Synonym	Neutral Red 4
Chemical Formula	C ₂₂ H ₂₀ O ₁₃

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Nature of decomposition products not known.
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	dark red powder.
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Incompatibilities	Strong oxidizing agents
Hazardous decomposition	
Products	Other decomposition products - no data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Carbol Fuchsin Powder for Microscopy
Cat No. STA060
CAS-No. 4197-24-4
M.W. 351.87
EC-No. 224-086-6
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 4197-24-4
Percent -
Substance/Mixture Substance
Synonym -
Chemical Formula $C_{21}H_{21}N_3 \cdot HCl$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Inhalation	(Category 4)
Acute toxicity (oral)	(Category 4)
Skin corrosion	(Sub-category 1B)
Serious eye damage	(Category 1)
Germ cell mutagenicity	(Category 2)
Carcinogenicity	(Category 1B)
Long-term (chronic) aquatic hazard	(Category 3)
Specific target organ toxicity — Repeated exposure	(Category 2)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H302+H332 Harmful if swallowed or if inhaled
H314 Causes severe skin burns and eye damage
H341 Suspected of causing genetic defects
H350 May cause cancer
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P201 Obtain special instructions before use
P280 Wear protective gloves, protective clothing, eye protection, face protection
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 Immediately call a doctor

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx) Combustible.
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black powder.
Odour	odourless.
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	Not applicable
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Auto-ignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Thermal decomposition generates : Corrosive vapours.
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Thermal decomposition generates : Corrosive vapours.

Material Safety Data Sheet

Chemistry beyond chemicals



Conditions to avoid Moisture.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Oral: Harmful if swallowed. Inhalation: Harmful if inhaled.
Skin corrosion/irritation	No data available
Serious eye damage/irritation	Serious eye damage
Respiratory/skin sensitization	Not classified
Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	IARC: 2B - Group 2B: Possibly carcinogenic to humans
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	Harmful to aquatic life with long lasting effects

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	3261
Proper shipping name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Hazard class	8
Packaging group	II

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Calmagite Indicator AR
Cat No. STA059
CAS-No. 3147-14-6
M.W. 358.37
EC-No. 221-563-0
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 3147-14-6
Percent Abt. 60.0%
Substance/Mixture Substance
Synonym 3-Hydroxy-4-(6-hydroxy-m-tolylazo)naphthalene-1-sulphonic acid ; Claver II
Chemical Formula $C_{17}H_{14}N_2O_5S$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Risk Phrases

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 Wear suitable protective clothing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards no data available
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Material Safety Data Sheet

Chemistry beyond chemicals



Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	powder
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	330 °C - lit.
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	no data available
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	no data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: May cause respiratory irritation.
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish no data available

Toxicity to daphnia and other aquatic invertebrates no data available

Persistence/degradation no data available

Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number -

Proper shipping name Not dangerous goods.

Hazard class -

Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	BromoThymol Blue Sodium Salt (W.S)
Cat No.	STA056
CAS-No.	34722-90-2
M.W.	646.37
EC-No.	252-169-7
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	34722-90-2
Percent	-
Substance/Mixture	Substance
Synonym	3',3''-Dibromothymolsulfonephthalein sodium salt; BTB
Chemical Formula	C ₂₇ H ₂₇ Br ₂ NaO ₅ S

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Sulphur oxides, Hydrogen bromide gas, Sodium oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: powder
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Auto-ignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Sulphur oxides, Hydrogen bromide gas, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	BromoThymol Blue (pH indicator)
Cat No.	STA055
CAS-No.	76-59-5
M.W.	624.40
EC-No.	200-971-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	76-59-5
Percent	-
Substance/Mixture	Substance
Synonym	3',3''-Dibromothymolsulfonephthalein
Chemical Formula	C ₂₇ H ₂₈ Br ₂ O ₅ S

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Sulphur oxides, Hydrogen bromide gas.
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige coloured powder
Odour	weakly of acetic acid
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20 °C insoluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	Strong oxidizing agents
Hazardous decomposition Products	Carbon oxides, Sulphur oxides, Hydrogen bromide gas.
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Bromo Pyrogallol Red
Cat No.	STA054
CAS-No.	16574-43-9
M.W.	558.15
EC-No.	240-632-6
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	16574-43-9
Percent	-
Substance/Mixture	Substance
Synonym	di Bromopyrogallol sulphonphthalein
Chemical Formula	C ₁₉ H ₁₀ Br ₂ O ₈ S

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Sulphur oxides, Hydrogen bromide gas
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Brown powder
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	300 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	No data available
Auto-ignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Sulphur oxides, Hydrogen bromide gas
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous good
Hazard class	-

Material Safety Data Sheet

Chemistry beyond chemicals



Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Bromo Phenol Blue Sodium Salt
Cat No.	STA053
CAS-No.	34275-61-6
M.W.	691.94
EC-No.	252-170-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	34725-61-6
Percent	-
Substance/Mixture	Substance
Synonym	-
Chemical Formula	$C_{19}H_{10}O_5SBr_4Na$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Sulphur oxides, Hydrogen bromide gas, Sodium oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole

Material Safety Data Sheet

Chemistry beyond chemicals



means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	Soluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	no data available
Hazardous decomposition	
Products	Carbon oxides, Sulphur oxides, Hydrogen bromide gas, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods

Material Safety Data Sheet

Chemistry beyond chemicals



Hazard class -
Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Bromo Phenol Blue pH Indicator
Cat No.	STA052
CAS-No.	115-39-9
M.W.	669.98
EC-No.	204-086-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	115-39-9
Percent	-
Substance/Mixture	Substance
Synonym	(BPB; 3',3'',5',5''-Tetrabromophenolsulfonephthalein)
Chemical Formula	C ₁₉ H ₁₀ O ₅ SBr ₄

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Sulphur oxides, hydrogen bromide
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid, pink to red brown
Odour	phenol-like
Odour Threshold	no data available
pH	no data available
Melting/freezing point	270 - 273 °C at 1,013 hPa (decomposition)
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20°C slightly Soluble
LogPow	9.2
Auto-ignition temperature	no data available
Decomposition temperature	above melting point
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Incompatibilities	Gives off hydrogen by reaction with metals.
Hazardous decomposition	
Products	Sulphur oxides, hydrogen bromide
Conditions to avoid	Strong heating (decomposition).

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Bromo cresol purple pH Indicator
Cat No. STA051
CAS-No. 115-40-2
M.W. 540.24
EC-No. 204-087-8
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 115-40-2
Percent -
Substance/Mixture Substance
Synonym 5,5'-Dibromo-o-cresolsulfonphthalein
Chemical Formula $C_{21}H_{16}O_5Br_2S$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Eye irritation (Category 2)
Skin irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Nature of decomposition products not known.
Advice for firefighters Wear personal protective equipment for firefighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/ivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	Melting point/range: 240 °C - dec.
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition Products	Other decomposition products - no data available In the event of fire: see section 5
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure : Inhalation - May cause respiratory irritation

Material Safety Data Sheet

Chemistry beyond chemicals



Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	no data available
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Toxicity to daphnia and	no data available
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other aquatic invertebrates	
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Persistence/degradation	no data available
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Environmental	no data available
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SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture : no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Bromo Cresol Green Sodium Salt
Cat No.	STA049
CAS-No.	62625-32-5
M.W.	720.02
EC-No.	263-657-4
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	62625-32-5
Percent	-
Substance/Mixture	Substance
Synonym	-
Chemical Formula	$C_{21}H_{13}Br_4NaO_5S$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Sulphur oxides, Hydrogen bromide gas, Sodium oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: powder Colour: dark red
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	230 °C - dec.
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Auto-ignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Sulphur oxides, Hydrogen bromide gas, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Bromo Cresol Green pH Indicator
Cat No.	STA048
CAS-No.	76-60-8
M.W.	698.02
EC-No.	200-972-8
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	76-60-8
Percent	-
Substance/Mixture	Substance
Synonym	3,3,5,5-Tetrabromo-m-cresolphthalein; Bromo cresol blue; BCG
Chemical Formula	$C_{21}H_{14}Br_4O_5S$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: hydrogen bromide, Sulphur oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
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Material Safety Data Sheet

Chemistry beyond chemicals



Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	greenish powder
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	217 - 218 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20 °C insoluble
LogPow	7.86
Auto-ignition temperature	no data available
Decomposition temperature	ca.225 °C
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	Strong oxidizing agents
Hazardous decomposition Products	hydrogen bromide, Sulphur oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure : no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a

Material Safety Data Sheet

Chemistry beyond chemicals



hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture : no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Brilliant Yellow Indicator
Cat No.	STA045
CAS-No.	3051-11-4
M.W.	624.56
EC-No.	221-267-1
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	3051-11-4
Percent	~70%
Substance/Mixture	Substance
Synonym	Direct Yellow 4
Chemical Formula	$C_{26}H_{18}N_4Na_2O_8S_2$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NO _x), Sulphur oxides, Sodium oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: powder Colour: orange
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Auto-ignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - > 180 mg/l - 96 h
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Brilliant Green Indicator for Microscopy
Cat No.	STA042
CAS-No.	633-03-4
M.W.	482.65
EC-No.	211-190-1
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	633-03-4
Percent	95%
Substance/Mixture	Substance
Synonym	Ethyl Green; Basic Green 1
Chemical Formula	$C_{27}H_{34}N_2O_4S$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 4)
Eye irritation (Category 2)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbol

Signal Word Warning

Hazard statement(s)

H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid, dark green
Odour	weak
Odour Threshold	no data available
pH	ca. 2.5 at 10 g/l 25 °C
Melting/freezing point	210 °C (decomposition)
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	ca.100 g/l at 20 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	ca.210 °C
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Gives off hydrogen by reaction with metals.
Hazardous decomposition	
Products	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides
Conditions to avoid	Strong heating.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 Rat: 300 - 400 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/irritation	Moderate eye irritation
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	BP6825000

SECTION 12: ECOLOGICAL INFORMATION

Material Safety Data Sheet

Chemistry beyond chemicals



Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	2811
Proper shipping name	Toxic Solid, Organic, N.O.S (N,N-Diethylaminotriphenylmethyliumhydrogen sulfate)
Hazard class	6.1
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Bromo Cresyl Blue Indicator
Cat No.	STA039
CAS-No.	81029-05-2
M.W.	386.0
EC-No.	279-675-0
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	81029-05-2
Percent	~45.0%
Substance/Mixture	Substance
Synonym	-
Chemical Formula	$C_{17}H_{20}ClN_3O \cdot \frac{1}{2}ZnCl_2$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Eye irritation	(Category 2)
Skin irritation	(Category 2)
Specific target organ toxicity - single exposure	(Category 3)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word	Warning
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Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas, Zinc/zinc oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
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Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	Melting point/range: 233 - 236 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas, Zinc/zinc oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure : no data available
Specific target organ toxicity	Repeated exposure: no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Aspiration hazard no data available
RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Toxicity to fish no data available
Toxicity to daphnia and other aquatic invertebrates no data available
Persistence/degradation no data available
Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number -
Proper shipping name Not dangerous goods
Hazard class -
Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture : no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Brilliant Blue R 250 for Electrophoresis
Cat No.	STA037
CAS-No.	6104-59-2
M.W.	825.99
EC-No.	228-060-5
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	6104-59-2
Percent	-
Substance/Mixture	Substance
Synonym	Coomassie brilliant blue R250; Acid Blue 83
Chemical Formula	$C_{45}H_{44}N_3O_7S_2Na$

SECTION 3: HAZARDS IDENTIFICATION

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Sulphur oxides, nitrogen oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder, brown
Odour	Odourless
Odour Threshold	no data available
pH	6.2 at 10g/l 25°C
Melting/freezing point	Ca 174-180°C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	ca.20g/l at 30°C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Gives off hydrogen by reaction with metals.
Hazardous decomposition	
Products	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx)
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 Rat: > 5,000 mg/kg
Skin corrosion/irritation	Rabbit Result: No irritation
Serious eye damage/irritation	Rabbit Result: No eye irritation
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	Toxicity to fish LC0 Danio rerio (zebra fish): 100 mg/l LC50 Danio rerio (zebra fish): 600 mg/l; 48 h
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous Goods

Material Safety Data Sheet

Chemistry beyond chemicals



Hazard class -
Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Brilliant Blue G 250 for Electrophoresis
Cat No.	STA038
CAS-No.	6104-58-1
M.W.	854.03
EC-No.	228-058-4
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	6104-58-1
Percent	-
Substance/Mixture	Substance
Synonym	Coomassie brilliant blue G250; Acid Blue 90
Chemical Formula	$C_{47}H_{48}N_3O_7S_2Na$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Sulphur oxides, nitrogen oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Material Safety Data Sheet

Chemistry beyond chemicals



Skin and Body Protection Respiratory protection

Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder, dark Violet
Odour	Weak Characteristic Odour
Odour Threshold	no data available
pH	Ca.6.4 at 10g/l 20°C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	40g/l at 20°C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Gives off hydrogen by reaction with metals.
Hazardous decomposition	
Products	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx)
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 Rat: > 5,000 mg/kg
Skin corrosion/irritation	Rabbit Result: No irritation
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	Toxicity to fish LC50 Salmo: 590 mg/l; 48 h
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a

Material Safety Data Sheet

Chemistry beyond chemicals



hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous Goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Bismark Brown Y for Microscopy
Cat No.	STA036
CAS-No.	10114-58-6
M.W.	419.32
EC-No.	233-314-3
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	10114-58-6
Percent	50.0%
Substance/Mixture	Substance
Synonym	(Basic Brown1; 4,4[1,3-Phenylenebis(azo)]-bis[1,3-benzenediamine]dihydrochloride
Chemical Formula	C ₁₈ H ₂₀ Cl ₂ N ₈

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NO _x), Hydrogen chloride gas
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole

Material Safety Data Sheet

Chemistry beyond chemicals



means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder Dark brown
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Gives off hydrogen by reaction with metals.
Hazardous decomposition	
Products	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 - Oryzias latipes - 0.5 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous Goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Bismark Brown R for Microscopy
Cat No.	STA035
CAS-No.	5421-66-9
M.W.	461.40
EC-No.	226-541-4
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	5421-66-9
Percent	40.0%
Substance/Mixture	Substance
Synonym	(Basic Brown4; 2,4-Bis(2,4-diamino-5-methyl-1-benzenazo)toluene dihydrochloride)
Chemical Formula	$C_{21}H_{26}Cl_2N_8$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole

Material Safety Data Sheet

Chemistry beyond chemicals



means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder Dark brown
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	222°C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition	
Products	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous Goods

Material Safety Data Sheet

Chemistry beyond chemicals



Hazard class -
Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Biebrich Scarlet (W.S)
Cat No.	STA031
CAS-No.	4196-99-0
M.W.	556.48
EC-No.	224-084-5
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	4196-99-0
Percent	~ 50.0%
Substance/Mixture	Substance
Synonym	Acid Red 66
Chemical Formula	$C_{22}H_{14}N_4Na_2O_7S_2$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: crystalline Colour: dark red
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Auto-ignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Berberine Hydrochloride
Cat No.	STA030
CAS-No.	633-65-8
M.W.	371.82
EC-No.	211-195-9
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	633-65-8
Percent	95.0%
Substance/Mixture	Substance
Synonym	Natural yellow 18
Chemical Formula	$C_{20}H_{18}NO_4 \cdot Cl$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	~200 °C(dec.)
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Auto-ignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - Rat - > 15.000 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Nutritional and Gross Metabolic:Changes in:Body temperature decrease
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

Material Safety Data Sheet

Chemistry beyond chemicals



UN number -
Proper shipping name Not Dangerous good
Hazard class -
Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Azur II (Eosine) for microscopy
Cat No. STA024
CAS-No. 53092-85-6
M.W. 1317.53
EC-No. -
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 53092-85-6
Percent -
Substance/Mixture Substance
Synonym -
Chemical Formula $C_{51}H_{40}Br_4Cl_2N_6Na_2O_5S_2$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Serious eye damage (Category 1)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H318 Causes serious eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides, Sulphur oxides, Hydrogen chloride gas, Hydrogen bromide gas
Advice for firefighters Wear personal protective equipment for firefighting if necessary.
Further information Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

Material Safety Data Sheet

Chemistry beyond chemicals



containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form: powder
 Colour: dark green

Odour no data available

Odour Threshold no data available

pH no data available

Melting/freezing point no data available

Boiling point/range no data available

Flash point no data available

Evaporation rate no data available

Vapour pressure no data available

Vapour density no data available

Relative density no data available

Water solubility no data available

LogPow no data available

Auto-ignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties no data available

Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability The product is chemically stable under standard ambient conditions (room temperature).

Incompatibilities Strong oxidizing agents

Hazardous decomposition Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas, Hydrogen bromide gas

products

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity no data available

Skin corrosion/irritation rabbit Result: no data available

Serious eye damage/irritation rabbit Result: no data available

Respiratory/skin sensitization no data available

Germ cell mutagenicity no data available

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity no data available

Specific target organ toxicity Single exposure: no data available

Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard no data available

Material Safety Data Sheet

Chemistry beyond chemicals



RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Azur A for Microscopy
Cat No.	STA028
CAS-No.	531 - 53 - 3
M.W.	291.80
EC-No.	208-510-7
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	531 - 53 - 3
Percent	~ 55.0%
Substance/Mixture	Substance
Synonym	Azure A chloride
Chemical Formula	$C_{14}H_{14}ClN_3S$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NO _x), Sulphur oxides, Hydrogen chloride gas
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: powder Colour: dark brown
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	290 °C (dec.)
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Intravenous - Rat - 37.72 mg/kg Remarks: Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Respiratory stimulation. Lungs, Thorax, or Respiration:Other changes.
Skin corrosion/irritation	rabbit Result: no data available
Serious eye damage/irritation	rabbit Result: no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	SP5660000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Auramine for Microscopy
Cat No. STA020
CAS-No. 2465-27-2
M.W. 303.84
EC-No. 219-567-2
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 2465-27-2
Percent -
Substance/Mixture Substance
Synonym 4,4'-Carbonimidoylbis
Chemical Formula $C_{17}H_{21}N_3 \cdot HCl$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, oral	Category 4
Acute toxicity, Dermal	Category 3
Carcinogenicity	Category 2

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)
H302 Harmful if swallowed.
H311 Toxic in contact with skin
H351 Suspected of causing cancer.

Precautionary statement(s)
P280 Wear protective gloves/ protective clothing.
P312 Call a POISON CENTER/doctor if you feel unwell.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards nitrogen oxides, Hydrogen chloride gas
Advice for firefighters Wear personal protective equipment for firefighting if necessary.
Further information Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing

Material Safety Data Sheet

Chemistry beyond chemicals



	vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A Yellow Colour
Odour	weak characteristic odour
Odour Threshold	no data available
pH	6 - 7 at 10 g/l 20 °C
Melting/freezing point	ca. 265 °C (decomposition)
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	10 g/l at 20 °C
LogPow	2.98
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	no data available
Hazardous decomposition products	nitrogen oxides, Hydrogen chloride gas

Conditions to avoid Strong heating

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 Rat: 1,000 mg/kg
Skin corrosion/irritation	rabbit Result: No skin irritation
Serious eye damage/irritation	rabbit Result: Causes serious eye irritation.
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Genotoxicity in vitro: Ames test Salmonella typhimurium Result: positive
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is

Material Safety Data Sheet

Chemistry beyond chemicals



Reproductive toxicity	identified as probable, possible or confirmed human carcinogen by IARC.
Specific target organ toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Aspiration hazard	Repeated exposure: no data available
RTECS	no data available
	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	2811
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4,4'-BIS-(DIMETHYLAMINO)-BENZOPHENONIMIDE HYDROCHLORIDE)
Hazard class	6.1
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Aniline Blue for microscopy
Cat No. STA018
CAS-No. 28983-56-4
M.W. 799.8
EC-No. 249-352-9
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 28983-56-4
Percent >60.0%
Substance/Mixture Substance
Synonym Water blue; acid blue 93; aniline blue water soluble
Chemical Formula $C_{37}H_{27}N_3Na_2O_9S_8$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.
Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.
Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.
Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Material Safety Data Sheet

Chemistry beyond chemicals



Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Ammonium Purpurate
Cat No.	STA015
CAS-No.	3051-09-0
M.W.	284.19
EC-No.	221-266-6
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	3051-09-0
Percent	-
Substance/Mixture	Substance
Synonym	Murexide
Chemical Formula	$C_8H_4N_5O_6.NH_4$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Nature of decomposition products not known.
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole

Material Safety Data Sheet

Chemistry beyond chemicals

means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Brown colour.
Odour	odourless
Odour Threshold	no data available
pH	ca. 5 at 1 g/l 20 °C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	ca.1 g/l at 20 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	> 250 °C
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Sensitivity to light
Incompatibilities	no data available
Hazardous decomposition products	no data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available.
Skin corrosion/irritation	rabbit Result: no data available
Serious eye damage/irritation	rabbit Result: no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure : no data available.
Specific target organ toxicity	Repeated exposure: no data available.
Aspiration hazard	no data available.
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available.
Persistence/degradation	no data available.
Environmental	no data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous good
Hazard class	-
Packaging group	-

Material Safety Data Sheet

Chemistry beyond chemicals

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture : no data available

■ SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Amido Black 10B
Cat No. STA012
CAS-No. 1064-48-8
M.W. 616.49
EC-No. 213-903-1
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 1064-48-8
Percent ~50.0%
Substance/Mixture Substance
Synonym Aniline Blue Black, Naphthol blue black
Chemical Formula $C_{22}H_{14}N_6Na_2O_9S_2$ (Hill)

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin sensitization Sub-category 1B
Specific target organ toxicity - repeated exposure Category 2

Pictograms or Hazard Symbols



Signal word **Warning**

Hazard statement(s)
H317 May cause an allergic skin reaction.
H373 May cause damage to organs (Blood) through prolonged or repeated exposure.

Precautionary statement(s)
P314 Get medical advice/ attention if you feel unwell.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards nitrogen oxides, Sulphur oxides
Advice for firefighters Wear personal protective equipment for firefighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Brown powder.
Odour	odourless
Odour Threshold	Not applicable
pH	ca. 9.0 at 10 g/l 25 °C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	10 g/l at 25 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	195 °C
Viscosity	no data available
Explosive properties	not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	nitrogen oxides, Sulphur oxides
Conditions to avoid	Strong heating (decomposition).

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 Mouse: > 5,000 mg/kg
Skin corrosion/irritation	rabbit Result: No skin irritation
Serious eye damage/irritation	Rabbit Result: No eye irritation
Respiratory/skin sensitization	Local lymph node assay (LLNA) Mouse Result: positive The product is a skin sensitizer, sub-category 1B. May cause an allergic skin reaction
Germ cell mutagenicity	Genotoxicity in vivo In vivo micronucleus test Mouse male and female Oral Result: negative Ames test Escherichia coli/Salmonella typhimurium Result: negative
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available.
Specific target organ toxicity	Repeated exposure: May cause damage to organs through prolonged or repeated exposure. Target Organs: Blood
Aspiration hazard	no data available.

Material Safety Data Sheet

Chemistry beyond chemicals



RTECS

QJ6196000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish

LC50 Pimephales promelas (fathead minnow): > 180 mg/l; 96 h

Persistence/degradation

no data available

Environmental

Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number

-

Proper shipping name

Not dangerous good

Hazard class

-

Packaging group

-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Chemistry beyond chemicals



Chemical name	Amaranth
Cat No.	STA010
CAS-No.	915-67-3
M.W.	604.50
EC-No.	213-022-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	915-67-3
Percent	>85.0%
Substance/Mixture	Substance
Synonym	Acid Red 27
Chemical Formula	C ₂₀ H ₁₁ N ₃ O ₁₀ Na ₃

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin irritation	(Category 2)
Eye irritation	(Category 2)
Specific target organ toxicity - single exposure	(Category 3)

Pictograms or Hazard Symbols



Signal word Warning

Hazard statement(s)	H315 Causes skin irritation.
	H319 Causes serious eye irritation.
	H335 May cause respiratory irritation.

Precautionary statement(s)	<p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
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SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides, Sulphur oxides, Sodium oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: solid Colour: red brown
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides, Sulphur oxides, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Intraperitoneal - Rat - 1,000 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	3 - Group 3: Not classifiable as to its carcinogenicity to humans
Reproductive toxicity	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Specific target organ toxicity	Inhalation - May cause respiratory irritation.
Specific target organ toxicity	Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides
Aspiration hazard	no data available
RTECS	QJ6550000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Alkali Blue 6B (pH indicator)
Cat No.	STA011
CAS-No.	30586-13-1
M.W.	573.65
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	Alkali Blue 6B (pH indicator)
CAS No.	1324-76-1
Percent	-
Substance/Mixture	Substance
Synonym	Acid Blue-110
Chemical Formula	$C_{32}H_{28}N_3NaO_4S$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up regulations.	Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and

SECTION 7: HANDLING AND STORAGE

Handling	NO smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Hand protection
Skin and Body Protection
Respiratory protection

Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue powder
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	Melting point/range: > 300 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1.3 g/cm ³ at 20 °C
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	> 400 °C
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition	Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO _x), Sulphur oxides
products	
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - Rat - male and female - > 5.000 mg/kg LC50 Inhalation - Rat - 1 h - > 2 mg/l
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available.
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	DB4957000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a

Material Safety Data Sheet

Chemistry beyond chemicals



hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Alizarin Red S (pH Indicator)
Cat No. STA007
CAS-No. 130-22-3
M.W. 364.24
EC-No. 204-981-8
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 130-22-3
Percent 70.0%
Substance/Mixture Substance
Synonym Alizarin sulphonic acid sodium salt
Chemical Formula $C_{14}H_6Na_2O_7S$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Sulphur oxides, Sodium oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: powder Colour: dark red
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Sodium oxides Other decomposition products - No data available
products	
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	
Serious eye damage/irritation	

Material Safety Data Sheet

Chemistry beyond chemicals



Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IAR
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	CB1095300

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Alizarin Red S (pH Indicator)
Cat No.	STA009
CAS-No.	130-22-3
M.W.	364.24
EC-No.	204-981-8
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	130-22-3
Percent	-
Substance/Mixture	Substance
Synonym	Alizarin sulphonic acid sodium salt
Chemical Formula	$C_{14}H_6Na_2O_7S$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin irritation	(Category 2)
Eye irritation	(Category 2)
Specific target organ toxicity - single exposure	(Category 3)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word	Warning
-------------	---------

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Sulphur oxides, Sodium oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: powder Colour: dark red
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Sodium oxides Other decomposition products - No data available
products	
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IAR
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	CB1095300

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Alizarin Complexone
Cat No.	STA006
CAS-No.	3952-78-1
M.W.	421.36
EC-No.	223-544-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	3952-78-1
Percent	~95.0%
Substance/Mixture	Substance
Synonym	Alizarin Fluorine Blue ; 3-Aminomethylalizarin-N,N-diacetic acid
Chemical Formula	$C_{19}H_{15}NO_8 \cdot 2H_2O$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx)
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Material Safety Data Sheet

Chemistry beyond chemicals



Skin and Body Protection Respiratory protection

Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: powder Colour: dark yellow
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	Melting point/range: 190 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Intravenous - Mouse - 170 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	AH0585000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



UN number -
Proper shipping name Not Dangerous good.
Hazard class -
Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Alizarin (pH Indicator) AR
Cat No. STA008
CAS-No. 72-48-0
M.W. 240.22
EC-No. 200-782-5
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 72-48-0
Percent -
Substance/Mixture Substance
Synonym Acid green ; Mordant Red 11; 1,2-Dihydroxyanthraquinone
Chemical Formula $\text{CO.C}_6\text{H}_4.\text{CO.C}_6\text{H}_2(\text{OH})_2$

SECTION 3: HAZARDS IDENTIFICATION GHS CLASSIFICATION

Acute toxicity, Oral (Category 4)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)
H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Precautionary statement(s)
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.
Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.
Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.
Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Remove all sources of ignition.

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/ivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	287-289 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	strong oxidizing agents, Strong bases
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available
products	
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	Eyes – Rabbit Result: Mild eye irritation - 24 h
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	CB6580000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	Toxicity to fish LC50 - Oryzias latipes - 1.1 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates	no data available

Persistence/degradation

Expected to be biodegradable

Environmental

Toxic to aquatic life. No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	ALCIAN BLUE 8GX for MICROSCOPY
Cat No.	STA003
CAS-No.	33864-99-2
M.W.	1298.86
EC-No.	251-705-7
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	38864-99-2
Percent	~50.0%
Substance/Mixture	Substance
Synonym	Ingrain Blue 1
Chemical Formula	$C_{56}H_{68}Cl_4CuN_{16}S_4$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Hydrogen chloride gas, Sulphur oxides, nitrogen oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Material Safety Data Sheet

Chemistry beyond chemicals



Skin and Body Protection Respiratory protection

Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Blue powder.
Odour	odourless
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	8 g/l at 25 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not available
Stability	The product is chemically stable under standard ambient conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Hydrogen chloride gas, Sulphur oxides, nitrogen oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available.
Skin corrosion/irritation	no data available.
Serious eye damage/irritation	no data available.
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available.
Specific target organ toxicity	Repeated exposure: no data available.
Aspiration hazard	no data available.
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	-
Proper shipping name	Not dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Acriflavine for Biochemistry
Cat No. STA005
CAS-No. 8048-52-0
M.W. 259.7
EC-No. -
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 8048-52-0
Percent 98.5-105.0%
Substance/Mixture Mixture
Synonym C.I. 46000; Euflavine;
A mixture of 3,6-diamino-10-methylacridinium chloride and 3,6- acridinediamine.
Chemical Formula $C_{14}H_{14}Cl N_3$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning
Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

Precautionary statement(s)

P261 Avoid breathing dust.
P273 Avoid release to the environment.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.
Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.
Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.
Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides (NOx)
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Remove all sources of ignition.

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	red powder
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	179-181 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	soluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx)
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure : no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	AR9660000

Material Safety Data Sheet

Chemistry beyond chemicals



Ecotoxicity

Toxicity to fish no data available

Toxicity to daphnia and no data available

other aquatic invertebrates

Persistence/degradation no data available

Environmental Toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s. (ACRIFLAVINE NEUTRAL)

Hazard class 9

Packaging group III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture :no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Acridine Orange
Cat No. STA002
CAS-No. 10127-02-3
M.W. 369.94
EC-No. 233-353-6
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 10127-02-3
Percent > 87.0%
Substance/Mixture Substance
Synonym Acridine Orange hemi(zinc chloride) salt; Basic Orange 14; C.I.46005
Chemical Formula $C_{17}H_{19}N_3 \cdot \frac{1}{2}ZnCl_2 \cdot HCl$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Germ cell mutagenicity (Category 2)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word

Warning

Hazard statement(s)

H341 Suspected of causing genetic defects

Precautionary statement(s)

P281 Use personal protective equipment as required.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas, Zinc/zinc oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	powder
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas, Zinc/zinc oxides
Conditions to avoid	Avoid moisture

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	In vitro tests showed mutagenic effects
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure : no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

Material Safety Data Sheet

Chemistry beyond chemicals



There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture :no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name m-Nitro Phenol Indicator
Cat No. STA297
CAS-No. 554-84-7
M.W. 139.11
EC-No. 209-073-5
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 554-84-7
Percent 99.0%
Substance/Mixture Substance
Synonym 3-Nitrophenol; 3-Hydroxy-1-nitrobenzene
Chemical Formula $C_6H_5NO_3$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral Category 4
Eye irritation Category 2

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards nitrogen oxides, nitrous gases
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Material Safety Data Sheet

Chemistry beyond chemicals



Methods and materials for containment and cleaning up regulations.

Discharge into the environment must be avoided.
Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and

SECTION 7: HANDLING AND STORAGE

Handling No smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance colourless, solid

Odour phenol-like

Odour Threshold no data available

pH 6.6 - 8.6 at 20 °C

Melting/freezing point 95-98 °C

Boiling point/range 194 °C at 93 hPa

Flash point > 100 °C

Evaporation rate no data available

Vapour pressure no data available

Vapour density no data available

Relative density 1.49 g/cm³ at 20 °C

Water solubility 13.5 g/l at 20 °C

LogPow 2.00

Auto-ignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties Not classified as explosive.

Oxidizing properties none

SECTION 10: STABILITY AND REACTIVITY

Reactivity Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical. Risk of dust explosion.

Stability The product is chemically stable under standard ambient conditions

Incompatibilities no data available

Hazardous decomposition Hazardous decomposition products formed under fire conditions. - nitrogen oxides, nitrous gases

products Other decomposition products - No data available

Conditions to avoid Strong heating. Explosive decomposition possible on heating

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity Acute oral toxicity LD50 rat: 328 mg/kg

Skin corrosion/irritation rabbit Result: slight irritation

Serious eye damage/irritation rabbit Result: eye irritation

Respiratory/skin sensitization no data available

Germ cell mutagenicity no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 <i>Oryzias latipes</i> (Orange-red killifish): 1.3 mg/l; 48 h
Toxicity to daphnia and other aquatic invertebrates	EC50 <i>Daphnia magna</i> (Water flea): 28 mg/l; 24 h
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	1663
Proper shipping name	NITROPHENOLS
Hazard class	6.1
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Methylenne Blue for Microscopy
Cat No.	STA248
CAS-No.	61-73-4
M.W.	319.86+ AAq.
EC-No.	200-515-22

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	61-73-4
Percent	>96.0%
Substance/Mixture	Substance
Synonym	Basic Blue 9; Tetramethylthionone chloride
Chemical Formula	$C_{16}H_{18}ClN_3S \cdot XH_2O$ (X=2-3)

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 4)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.

Precautionary statement(s)

P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon monoxide, Carbon dioxide, nitrogen oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
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Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	brownish red powder.
Odour	odorless
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	Soluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature)
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon monoxide, Carbon dioxide, nitrogen oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is

Material Safety Data Sheet

Chemistry beyond chemicals



Reproductive toxicity	identified as probable, possible or confirmed human carcinogen by IARC.
Specific target organ toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Aspiration hazard	Repeated exposure: no data available
RTECS	no data available
	SP5740000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to rat	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Methyl Violet for Microscopy
Cat No. STA261
CAS-No. 8004-87-3
M.W. 393.95
EC-No. -
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 8004-87-3
Percent 75.0%
Substance/Mixture Substance
Synonym Basic Violet 1; Methyl Violet 2B
Chemical Formula $C_{24}H_{28}ClN_3$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 4)
Carcinogenicity (Category 2)
Acute aquatic toxicity (Category 1)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.

Precautionary statement(s)

P273 Avoid release to the environment.
P281 Use personal protective equipment as required.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Nature of decomposition products not known.
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and regulations.

SECTION 7: HANDLING AND STORAGE

Handling	No smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	137°C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	no data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - Rat - 413 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	CX9899550

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.047 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - 420 mg/l - 48 h

Persistence/degradation no data available

Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic violet 1)
Hazard class	9
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Methyl Thymol Blue Complexone
Cat No.	STA260
CAS-No.	1945-77-3
M.W.	844.76
EC-No.	217-743-3
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	1945-77-3
Percent	-
Substance/Mixture	Substance
Synonym	Methylthymol Blue sodium salt
Chemical Formula	$C_{37}H_{40}N_2Na_4O_{13}S$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige coloured powder
Odour	weak characteristic odour
Odour Threshold	no data available
pH	6.2 at 10 g/l 20 °C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	ca.460 g/l at 20 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No data available
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	Strong oxidizing agents
Hazardous decomposition	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Products	
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Methyl Orange (pH Indicator)
Cat No. STA253
CAS-No. 547-58-0
M.W. 327.04
EC-No. 208-925-3
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 547-58-0
Percent >85.0%
Substance/Mixture Substance
Synonym Acid Orange 52; Sodium-4-[4-(Dimethylamino)phenylazo]benzenesulphonate
Chemical Formula $C_{14}H_{14}N_3NaO_3S$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 3)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

Precautionary statement(s)

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/physician.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Sulphur oxides, nitrogen oxides, nitrous gases
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

Material Safety Data Sheet

Chemistry beyond chemicals



containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Orange crystalline powder

Odour weak characteristic odour

Odour Threshold no data available

pH ca.6.5 at 5 g/l 20 °C

Melting/freezing point > 300 °C

Boiling point/range no data available

Flash point no data available

Evaporation rate no data available

Vapour pressure no data available

Vapour density no data available

Relative density no data available

Water solubility ca.5 g/l at 20 °C

LogPow -0.66

Auto-ignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties Not classified as explosive.

Oxidizing properties none

SECTION 10: STABILITY AND REACTIVITY

Reactivity The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Stability The product is chemically stable under standard ambient conditions (room temperature).

Incompatibilities Strong oxidizing agents

Hazardous decomposition products Sulphur oxides, nitrogen oxides, nitrous gases

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral toxicity LD50 Rat: 60 mg/kg

Skin corrosion/irritation no data available

Serious eye damage/irritation Possible damages: slight irritation

Respiratory/skin sensitization no data available

Germ cell mutagenicity no data available

Carcinogenicity no data available

Reproductive toxicity no data available

Specific target organ toxicity Single exposure: no data available

Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard no data available

RTECS DB6327000

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Chemistry beyond chemicals



SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to rat no data available

Toxicity to daphnia and no data available

other aquatic invertebrates

Persistence/degradation no data available

Environmental Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 3143

Proper shipping name TOXIC SOLID, ORGANIC, N.O.S.(METHYL ORANGE)

Hazard class 6.1

Packaging group III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Methyl Blue for Microscopy
Cat No.	STA245
CAS-No.	28983-56-4
M.W.	799.80
EC-No.	249-352-9
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	28983-56-4
Percent	-
Substance/Mixture	Substance
Synonym	Acid Blue 93
Chemical Formula	$C_{37}H_{27}N_3Na_2O_9S_8$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Sulphur oxides, nitrogen oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up regulations.	Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and

SECTION 7: HANDLING AND STORAGE

Handling	No smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Hand protection
Skin and Body Protection
Respiratory protection

Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A Brown colour solid.
Odour	Odourless
Odour Threshold	Not applicable
pH	ca. 5.0 at 10 g/l 20 °C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	ca. 70 g/l at 20 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions
Incompatibilities	no data available
Hazardous decomposition products	Sulphur oxides, nitrogen oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 rat: > 5,000 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a

Material Safety Data Sheet

Chemistry beyond chemicals



hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Metanil Yellow
Cat No. STA241
CAS-No. 587-98-4
M.W. 375.38
EC-No. 209-608-2
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 587-98-4
Percent Abt. 70.0%
Substance/Mixture Substance
Synonym Acid yellow 36; Sodium 3-(p-anilinophenylazo)benzenesulfonate
Chemical Formula $C_{18}H_{14}N_3NaO_3S$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Serious eye damage Category 1
Chronic aquatic toxicity Category 3

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word Warning

Hazard statement(s)

H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention
P273 Avoid release to the environment.
P280 Wear eye protection.
Response
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards nitrous gases, nitrogen oxides, Sulphur oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Remove all sources of ignition. Prevent further leakage/spillage. Do not let product enter drains/streams.
Methods and materials for containment and cleaning up	Discharge into the environment must be avoided. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brownish yellow powder.
Odour	Odourless
Odour Threshold	no data available
pH	ca.10 at 10 g/l 20 °C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	25 g/l at 20 °C
LogPow	2.25
Auto-ignition temperature	no data available
Decomposition temperature	295 °C
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Risk of dust explosion.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	nitrous gases, nitrogen oxides, Sulphur oxides
Conditions to avoid	Strong heating (decomposition).

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	rabbit Result: No irritation
Serious eye damage/irritation	rabbit Result: Eye irritation
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



RTECS DB7329500

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 Poecilia reticulata (guppy): 10 -100 mg/l; 96 h

Toxicity to daphnia and other aquatic invertebrates no data available

Persistence/degradation Biodegradability: Not readily biodegradable.

Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number -
Proper shipping name Not Dangerous goods.
Hazard class -
Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name May And Grunwald's Stain for Microscopy
Cat No. STA238
CAS-No. -
M.W. -
EC-No. -
Company -
Email -

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. -
Percent -
Substance/Mixture Mixture
Synonym -
Chemical Formula -

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity Category 4
Eye irritation Category 2

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.
Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.
Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.
Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special hazards Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas, Hydrogen bromide gas, Sodium oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.
Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

Material Safety Data Sheet

Chemistry beyond chemicals



Storage condition exhaust ventilation at places where dust is formed.
Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance powder

Odour no data available

Odour Threshold no data available

pH no data available

Melting/freezing point no data available

Boiling point/range no data available

Flash point no data available

Evaporation rate no data available

Vapour pressure no data available

Vapour density no data available

Relative density no data available

Water solubility soluble

LogPow no data available

Auto-ignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties no data available

Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability Stable under recommended storage conditions.

Incompatibilities Bases, Strong oxidizing agents, Reducing agents

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas, Hydrogen bromide gas, Sodium oxides

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation no data available

Serious eye damage/irritation no data available

Respiratory/skin sensitization no data available

Germ cell mutagenicity no data available

Carcinogenicity 3 - Group 3: Not classifiable as to its carcinogenicity to humans

Reproductive toxicity no data available

Specific target organ toxicity Single exposure : no data available

Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard no data available

RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish no data available

Toxicity to daphnia and other aquatic invertebrates no data available

Persistence/degradation no data available

Environmental no data available

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture :no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Martius Yellow for Microscopy
Cat No. STA237
CAS-No. 605-69-6
M.W. 234.17
EC-No. 210-093-1
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 605-69-5
Percent -
Substance/Mixture Substance
Synonym 2,4-Dinitro-1-naphthol
Chemical Formula C₁₀H₆N₂O₅

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Remove all sources of ignition. Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up regulations.	Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and

SECTION 7: HANDLING AND STORAGE

Handling	No smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid
Odour	Odourless
Odour Threshold	no data available
pH	no data available
Melting/freezing point	127-132 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Material Safety Data Sheet

Chemistry beyond chemicals



Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: Inhalation - May cause respiratory irritation.
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	QL3850000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 - Oryzias latipes - 0.8 mg/l - 48 h
Toxicity to daphnia	
and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Malachite Green for Microscopy
Cat No. STA235
CAS-No. 2437-29-8
M.W. 927.02
EC-No. 219-441-7
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 2437-29-8
Percent About 90%
Substance/Mixture Substance
Synonym Basic Green 4; Malachite Green oxalate
Chemical Formula $C_{62}H_{54}N_4O_{12}$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity	Category 3
Serious eye damage	Category 1
Reproductive toxicity	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Danger

Hazard statement(s)

H301 Toxic if swallowed.
H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Nitrogen oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up regulations.	Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and

SECTION 7: HANDLING AND STORAGE

Handling	No smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A green colour powder.
Odour	weak characteristic odour
Odour Threshold	no data available
pH	2.4 at 10 g/l 24 °C
Melting/freezing point	ca. 159 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	110 g/l at 24 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions
Incompatibilities	no data available
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides Other decomposition products - No data available
products	
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Material Safety Data Sheet

Chemistry beyond chemicals



Acute toxicity	Acute oral toxicity LD50 Rat: 275 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 Ictalurus catus (catfish): 0.14 mg/l; 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 Daphnia magna (Water flea): 0.29 mg/l; 48 h
Toxicity to bacteria	EC50 Sewage sludge: 10 - 100 mg/l
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	2811
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S. (MALACHITE GREEN OXALATE)
Hazard class	6.1
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Litmus Granular (pH Indicator)
Cat No.	STA225
CAS-No.	1393-92-6
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	1393-92-6
Percent	-
Substance/Mixture	Substance
Synonym	-
Chemical Formula	-

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	No data available
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid
Odour	no data available
Odour Threshold	no data available
pH range	5.0-8.0
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Auto-ignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	No data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Light Green SF Yellowish
Cat No.	STA148
CAS-No.	5141-20-8
M.W.	792.86
EC-No.	225-906-5
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	5141-20-8
Percent	-
Substance/Mixture	Substance
Synonym	Light Green SF
Chemical Formula	$C_{37}H_{34}N_2O_9S_3Na_2$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Lead oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and regulations.

SECTION 7: HANDLING AND STORAGE

Handling	No smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Hand protection
Skin and Body Protection
Respiratory protection

Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid, dark Violet
Odour	Weak
Odour Threshold	no data available
pH	ca 2.9 10g/l 25°C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions
Incompatibilities	Strong reducing agents
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. - Lead oxides Other decomposition products - No data available
products	
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

Material Safety Data Sheet

Chemistry beyond chemicals



There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Leishman's Stain for Microscopy
Cat No.	STA210
CAS-No.	12627-53-1
M.W.	-
EC-No.	235-732-1
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	12627-53-1
Percent	-
Substance/Mixture	Substance
Synonym	Eosine Methylene Blue Compound
Chemical Formula	-

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Lead oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and regulations.

SECTION 7: HANDLING AND STORAGE

Handling	No smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Hand protection
Skin and Body Protection
Respiratory protection

Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid, dark green
Odour	odourless
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20°C practically insoluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions
Incompatibilities	Strong reducing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Lead oxides
Conditions to avoid	Other decomposition products - No data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

Material Safety Data Sheet

Chemistry beyond chemicals



There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

■ SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

■ SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

■ SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Indigo Carmine for Microscopy AR
Cat No. STA198
CAS-No. 860-22-0
M.W. 466.36
EC-No. 212-728-8
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 860-22-0
Percent 85.0%
Substance/Mixture Substance
Synonym Acid Blue 74; Food Blue 1; 5,5'-Indigodisulfonic acid disodium salt
Chemical Formula $C_{16}H_8N_2Na_2O_8S_2$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity (Category 4)
Skin irritation (Category 2)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H317 May cause an allergic skin reaction.

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards no data available
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and regulations.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 7: HANDLING AND STORAGE

Handling	NO smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A dark blue powder
Odour	Light Odour
Odour Threshold	no data available
pH	no data available
Melting/freezing point	> 300 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	1 g/100 mL (25 °C)
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	No data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Haematoxylin Monohydrate for Microscopy
Cat No. STA185
CAS-No. 517-28-2
M.W. 302.29
EC-No. 208-237-3
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 517-28-2
Percent -
Substance/Mixture Substance
Synonym 7,11b-Dihydrobenz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6H)-pentol; Natural Black 1
Chemical Formula $C_{16}H_{14}O_6H_2O$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 4)
Specific target organ toxicity - repeated exposure, Oral (Category 2)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word Warning
Hazard statement(s)

H302 Harmful if swallowed
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.
Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.
Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.
Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.
Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and regulations.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 7: HANDLING AND STORAGE

Handling	NO smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A yellow to brown powder
Odour	Odourless
Odour Threshold	no data available
pH	no data available
Melting/freezing point	140° C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	Sensitivity to light, Sensitive to air.
Incompatibilities	no data available
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. -Carbon oxides Other decomposition products - No data available
products	
Conditions to avoid	Strong heating.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Giemsa's Stain For Microscopy
Cat No.	STA176
CAS-No.	51811-82-6
M.W.	291.80
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	51811-82-6
Percent	-
Substance/Mixture	Substance
Synonym	Azure mixture sicc. Giemsa stain
Chemical Formula	C ₁₄ H ₁₄ ClN ₃ S

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NO _x), Sulphur oxides, Hydrogen chloride gas, Hydrogen bromide gas
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: solid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	Melting point/range: 300 °C - lit
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition Products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas, Hydrogen bromide gas
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure : no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a

Material Safety Data Sheet

Chemistry beyond chemicals



hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture : no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Gentian Violet for Microscopy
Cat No. STA172
CAS-No. 548-62-9
M.W. 407.99
EC-No. 208-953-6
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 548-62-9
Percent ~90.0%
Substance/Mixture Substance
Synonym Methyl violet; Crystal Violet; Basic Violet 3
Chemical Formula $C_{25}H_{30}N_3Cl$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral	Category 4
Serious eye damage	Category 1
Carcinogenicity	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards nitrogen oxides, Hydrogen chloride gas

Material Safety Data Sheet

Chemistry beyond chemicals



Advice for firefighters
Further information

Wear personal protective equipment for fire fighting if necessary.
no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up regulations.	Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and

SECTION 7: HANDLING AND STORAGE

Handling	NO smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A dark green color powder.
Odour	Odourless
Odour Threshold	Not applicable
pH	2.5 - 3.5 at 10 g/l 20 °C
Melting/freezing point	189-194 °C
Boiling point/range	no data available
Flash point	Not applicable
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1.190 g/cm ³ at 20 °C
Water solubility	10 g/l at 20 °C
LogPow	1.172 (25 °C)
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. - nitrogen oxides, chloride gas
Hydrogen products	Other decomposition products - No data available

Material Safety Data Sheet

Chemistry beyond chemicals



Conditions to avoid Strong heating (decomposition).

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 Rat: 420 mg/kg Acute inhalation toxicity Symptoms: Possible damages:, Irritation symptoms in the respiratory tract.
Skin corrosion/irritation	no data available
Serious eye damage/irritation	Causes serious eye damage.
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 <i>S.gairdnerii</i> : 0.7 mg/l; 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 <i>Daphnia magna</i> (Water flea): > 0.24 - < 0.5 mg/l; 48 h
Toxicity to algae	EC50 <i>Pseudokirchneriella subcapitata</i> (green algae): 0.42 mg/l; 72 h
Toxicity to bacteria	EC50 Bacteria: 10 - 100 mg/l
Persistence/degradation	Biodegradability 3.6 %; 28 d; aerobic Not readily biodegradable
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONT. HEXAMETHYLENE PARAROSANILIN CHLORIDE)
Hazard class	9
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Fuchsin Basic for Microscopy
Cat No. STA166
CAS-No. 632-99-5
M.W. 337.86
EC-No. 211-189-6
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 632-99-5
Percent ~88.0%
Substance/Mixture Substance
Synonym Basic fuchsin; Rosaniline hydrochloride; Basic Violet 14
Chemical Formula $C_{20}H_{19}N_3 \cdot HCl$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 4)
Carcinogenicity (Category 1B)
Reproductive toxicity (Category 1B)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed
H351 Suspected of causing cancer

Precautionary statement(s)

P281 Use personal protective equipment as required.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards no data available
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

Material Safety Data Sheet

Chemistry beyond chemicals



containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance A green colour powder.

Odour Odourless

Odour Threshold no data available

pH no data available

Melting/freezing point 250 °C

Boiling point/range no data available

Flash point 200 °C

Evaporation rate no data available

Vapour pressure no data available

Vapour density no data available

Relative density no data available

Water solubility 4 g/L (25 °C)

LogPow no data available

Auto-ignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties no data available

Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability Stable under recommended storage conditions

Incompatibilities Strong oxidizing agents

Hazardous decomposition products No data available

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/irritation No data available

Respiratory/skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity No data available

Specific target organ toxicity Single exposure: No data available

Specific target organ toxicity Repeated exposure: No data available

Aspiration hazard No data available

RTECS No data available

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Fuchsin Acid for Microscopy
Cat No.	STA165
CAS-No.	3244-88-0
M.W.	585.55
EC-No.	221-816-5
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	3244-88-0
Percent	~60.0%
Substance/Mixture	Substance
Synonym	Acid Fuchin; Rubin S; Acid Violet 19
Chemical Formula	$C_{20}H_{17}N_3O_9S_3Na_2$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A green color powder.
Odour	Odourless
Odour Threshold	no data available
pH	ca. 3 - 4 at 10 g/l 20 °C
Melting/freezing point	> 130 °C (decomposition)
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	ca. 10 g/l at 20 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	None

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions
Incompatibilities	no data available
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. - nitrogen oxides, Sulphur oxides Other decomposition products - No data available
products	
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	DD4737000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a

Material Safety Data Sheet

Chemistry beyond chemicals



hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Fluorescein Sodium
Cat No.	STA160
CAS-No.	518-47-8
M.W.	376.3
EC-No.	208-253-0
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	518-47-8
Percent	98.0%
Substance/Mixture	Substance
Synonym	Uranin; Acid Yellow 73; Disodium 2-(3-oxo-6-oxidoxanthen-9-yl)benzoate
Chemical Formula	C ₂₀ H ₁₀ Na ₂ O ₅

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	No data available
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Material Safety Data Sheet

Chemistry beyond chemicals



Skin and Body Protection Respiratory protection

Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Orange red hygroscopic powder
Odour	Odourless
Odour Threshold	no data available
pH	7.0-9.0
Melting/freezing point	320 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	500 g/L (20 °C)
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	No data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Fluorescein Complexone
Cat No.	STA159
CAS-No.	1461-15-0
M.W.	622.55
EC-No.	215-957-1
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	1461-15-0
Percent	-
Substance/Mixture	Substance
Synonym	Fluorescein di-(methylimino diacetic acid); Fluorexon
Chemical Formula	$C_{30}H_{26}N_2O_{13}$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	nitrogen oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow-orange colour powder.
Odour	weakly of acetic acid
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20 °C slightly soluble
LogPow	-0.74
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Violent reactions possible with: Strong oxidizing agents
Stability	The product is chemically stable under standard ambient conditions
Incompatibilities	no data available
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - nitrogen oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
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Material Safety Data Sheet

Chemistry beyond chemicals



Proper shipping name	Not Dangerous good.
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Evan's Blue for Microscopy
Cat No. STA140
CAS-No. 314-13-6
M.W. 960.82
EC-No. 206-242-5
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 314-13-6
Percent 85.0%
Substance/Mixture Substance
Synonym Direct Blue 53
Chemical Formula $C_{34}H_{24}N_6Na_4O_{14}S_4$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION
GHS LABEL ELEMENTS Carcinogenicity (Category 1B)



PICTOGRAMS OR HAZARDS SYMBOLS

Signal word Danger

Hazard statements
H350 May cause Cancer.

Precautionary Statements
P-200 P201 Obtain special instructions before use.
P308 +P313 IF exposed or concerned: Get medical advice/attention.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Material Safety Data Sheet

Chemistry beyond chemicals



Methods and materials for containment and cleaning up	Discharge into the environment must be avoided. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.
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SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Intraperitoneal - Mouse - 340 mg/kg
Skin corrosion/irritation	Skin - Rabbit Result: Severe eye irritation - 24 h
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Overexposure may cause reproductive disorder(s) based on tests with laboratory animals
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available

Material Safety Data Sheet

Chemistry beyond chemicals



**Aspiration hazard
RTECS**

Based on available data the classification criteria are not met.
no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Erythrosin B for Microscopy
Cat No. STA138
CAS-No. 16423-68-0
M.W. 879.87
EC-No. 240-474-8
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 16423-68-0
Percent 80.0 %
Substance/Mixture Substance
Synonym Iodoeosine; Disodium 2-(2,4,5,7-tetraiodo-6-oxido-3-oxoxanthen-9-yl)benzoate
Chemical Formula $C_{20}H_6I_4Na_2O_5$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity Category 4

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P273 Avoid release to the environment.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards No data available
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Material Safety Data Sheet

Chemistry beyond chemicals



Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red brown color powder
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	303° C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	Soluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	No data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental

No data available

■ SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

■ SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

■ SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

■ SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Erichrome Black T AR
Cat No.	STA132
CAS-No.	1787-61-7
M.W.	461.38
EC-No.	217-250-3
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	1787-61-7
Percent	-
Substance/Mixture	Substance
Synonym	Solochrome black T
Chemical Formula	$C_{20}H_{12}N_3NaO_7S$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	no data available
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brownish black powder
Odour	weak
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	No data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-

Material Safety Data Sheet

Chemistry beyond chemicals



Packaging group -

■ SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

■ SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Eriochrome Black T
Cat No.	STA131
CAS-No.	1787-61-7
M.W.	461.38
EC-No.	217-250-3
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	1787-61-7
Percent	-
Substance/Mixture	Substance
Synonym	Solochrome Black T; Mordant Black 11
Chemical Formula	$C_{20}H_{12}N_3NaO_7S$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides. Combustible. Fire may cause evolution of: Sulfur oxides, nitrogen oxides. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed. Store at +15°C to +25°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Material Safety Data Sheet

Chemistry beyond chemicals



Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brownish black powder
Odour	weak
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	Strong oxidizing agents
Hazardous decomposition Products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Rat: 17,590 mg/kg
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Ames test Salmonella typhimurium Result: positive
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 6 mg/l - 96 h
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous Goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture : no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Eosin Yellow Indicator for Microscopy
Cat No.	STA127
CAS-No.	17372-87-1
M.W.	691.88
EC-No.	241-409-6
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	17372-87-1
Percent	-
Substance/Mixture	Substance
Synonym	Acid Red 87, Eosin Yellowish
Chemical Formula	$C_{20}H_6Br_4Na_2O_5$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Eye irritation (Category 2)



PICTOGRAMS OR HAZARDS SYMBOLS

Signal Word	Warning
Hazard Statements	H319 Causes serious eye irritation.
Precautionary Statements	P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	no data available
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate
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Material Safety Data Sheet

Chemistry beyond chemicals



Storage condition exhaust ventilation at places where dust is formed.
Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Dark brown powder

Odour odourless

Odour Threshold no data available

pH no data available

Melting/freezing point no data available

Boiling point/range no data available

Flash point no data available

Evaporation rate no data available

Vapour pressure no data available

Vapour density no data available

Relative density no data available

Water solubility Soluble

LogPow no data available

Auto-ignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties no data available

Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability Stable under recommended storage conditions

Incompatibilities Strong oxidizing agents

Hazardous decomposition products No data available

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/irritation No data available

Respiratory/skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity No data available

Specific target organ toxicity Single exposure: No data available

Specific target organ toxicity Repeated exposure: No data available

Aspiration hazard No data available

RTECS No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity No data available

Persistence/degradation No data available

Environmental No data available

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Dimethyl Yellow (pH indicator)
Cat No. STA108
CAS-No. 60-11-7
M.W. 225.30
EC-No. 200-455-7
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 60-11-7
Percent -
Substance/Mixture Substance
Synonym (N,N-Dimethyl-4-Phenylazoaniline; Methyl Yellow)
Chemical Formula $C_{15}H_{15}N_3$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 3)
Carcinogenicity (Category 2)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Danger

Hazard Statements
H301 Toxic if swallowed.
H351 Suspected of causing cancer.

Precautionary Statements

P281 Use personal protective equipment as required.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER doctor/physician.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Material Safety Data Sheet

Chemistry beyond chemicals



Environmental precautions	Remove all sources of ignition. Prevent further leakage/spillage. Do not let product enter drains/ivers.
Methods and materials for containment and cleaning up	Discharge into the environment must be avoided. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid
Odour	characteristic
Odour Threshold	no data available
pH	no data available
Melting/freezing point	111 °C - dec.
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	acids, Acid anhydrides, Oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - Rat - 200 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Laboratory experiments have shown mutagenic effects.
Carcinogenicity	IARC: 2B - Group 2B: Possibly carcinogenic to humans
Reproductive toxicity	May cause congenital malformation in the fetus.
Specific target organ toxicity	Single exposure: May cause respiratory irritation.
Specific target organ toxicity	Repeated exposure: no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Aspiration hazard no data available
RTECS BX7350000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity no data available
Persistence/degradation no data available.
Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 2811
Proper shipping name Toxic Solid, Organic, N.O.S (4-Dimethylaminobenzene)
Hazard class 6.1
Packaging group III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Curcumin Crystalline for Synthesis
Cat No.	STA093
CAS-No.	458-37-7
M.W.	368.39
EC-No.	207-280-5
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	458-37-7
Percent	97.0%
Substance/Mixture	Substance
Synonym	Diferuloylmethane; Natural Yellow 3
Chemical Formula	C ₂₁ H ₂₀ O ₆

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory protection

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Orange-yellow crystalline powder.
Odour	No strong odour known.
Odour Threshold	no data available
pH	no data available
Melting/freezing point	170-175 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20 °C insoluble
LogPow	3.29
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	Sensitivity to light
Incompatibilities	no data available
Hazardous decomposition products	no data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity: LD50 rat: > 5,000 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Genotoxicity in vitro: Ames test Salmonella typhimurium Result: negative
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number

-

Material Safety Data Sheet

Chemistry beyond chemicals



Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Crystal violet for Microscopy and pH Indicator
Cat No. STA091
CAS-No. 548-62-9
M.W. 407.99
EC-No. 208-953-66
Company t.
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 548-62-9
Percent >90.0%
Substance/Mixture Substance
Synonym Basic Violet 3; Methyl violet; Gentian Violet
Chemical Formula $C_{25}H_{30}ClN_3$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 4)
Serious eye damage (Category 1)
Carcinogenicity (Category 1B)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas
Advice for firefighters Wear personal protective equipment for firefighting if necessary.
Further information Use water spray to cool unopened containers.

Material Safety Data Sheet

Chemistry beyond chemicals



Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	dark green powder
Odour	Odourless
Odour Threshold	no data available
pH	2.5 - 3.5 at 10 g/l at 20 °C
Melting/freezing point	189-194 °C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	10 g/l at 20 °C
LogPow	0.51
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	no data available
Hazardous decomposition products	Carbon oxides, nitrogen oxides (NO _x), Hydrogen chloride gas
Conditions to avoid	Strong heating (decomposition).

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	Causes serious eye damage.
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 *S.gairdnerii*: 0.7 mg/l; 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 Bacteria: 10 - 100 mg/l

Persistence/degradation no data available

Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONT. HEXAMETHYLENE PARAROSANILIN CHLORIDE)

Hazard class 9

Packaging group III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	2,7-Dichloro Fluorescein
Cat No.	STA099
CAS-No.	76-54-0
M.W.	401.20
EC-No.	200-968-6
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	76-54-0
Percent	~90.0%
Substance/Mixture	Substance
Synonym	2,7-Dichloro-3,6- florandiol
Chemical Formula	$C_{20}H_{10}Cl_2O_5$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Hydrogen chloride gas
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole

Material Safety Data Sheet

Chemistry beyond chemicals



means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A yellow-orange colour powder.
Odour	Odourless
Odour Threshold	Not applicable
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20 °C insoluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	no data available
Hazardous decomposition products	Hydrogen chloride gas
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available.
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good.

Material Safety Data Sheet

Chemistry beyond chemicals



Hazard class -
Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	1,5-Diphenyl Carbazone
Cat No.	STA118
CAS-No.	538-62-5
M.W.	240.27
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	538-62-5
Percent	35-40%
Substance/Mixture	Substance
Synonym	Diphenyl carbazone
Chemical Formula	C ₁₃ H ₁₂ ON ₄

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	No data available
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Material Safety Data Sheet

Chemistry beyond chemicals



Skin and Body Protection Respiratory protection

Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Orange red needles/powder.
Odour	Odourless
Odour Threshold	no data available
pH	no data available
Melting/freezing point	153-158° C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	Insoluble
Auto-ignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	No data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



■ SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
Hazard class	-
Packaging group	-

■ SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

■ SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	1,5-Diphenyl Carbazone
Cat No.	STA117
CAS-No.	538-62-5
M.W.	240.27
EC-No.	208-698-0
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	538-62-5
Percent	-
Substance/Mixture	Substance
Synonym	Diphenyl carbazone
Chemical Formula	$C_{13}H_{12}ON_4$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Nitrogen oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up regulations.	Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and

SECTION 7: HANDLING AND STORAGE

Handling	NO smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
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Material Safety Data Sheet

Chemistry beyond chemicals



Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Orange color powder.
Odour	Odourless
Odour Threshold	no data available
pH	no data available
Melting/freezing point	153 - 158 °C (decomposition)
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	at 20 °C practically insoluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	no data available
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides
Conditions to avoid	Strong heating

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name 1,5-Diphenyl Carbazide
Cat No. STA113
CAS-No. 140-22-7
M.W. 242.28
EC-No. 205-403-7
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 140-22-7
Percent 97.0%
Substance/Mixture Substance
Synonym 1,5-Diphenyl carbohydrazide
Chemical Formula $C_{13}H_{14}N_4O$

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and regulations.

SECTION 7: HANDLING AND STORAGE

Handling NO smoking. Keep away from sources of ignition. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist. Wear suitable protective equipment.
Storage condition Keep in dry place at 0 to 4°C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection Face shield and safety glasses, if required.
Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection Impervious protective clothing and boots, if required.
Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A white to off-white crystalline powder, gradually becomes pink.
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	165-170°C
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides
Conditions to avoid	Light

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available.
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	FF2750000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name 1,10-Phenanthroline Monohydrate AR
Cat No. STA318
CAS-No. 5144-89-8
M.W. 198.23
EC-No. -
Company
Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. 5144-89-8
Percent >99.5%
Substance/Mixture Substance
Synonym o- Phenanthroline Monohydrate
Chemical Formula $C_{12}H_8N_2 \cdot H_2O$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)
Acute toxicity, Oral (Category 3)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/ container to an approved waste disposal plant.

Risk Phrases

R25 Toxic if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Carbon oxides, Nitrogen oxides
Advice for firefighters Wear personal protective equipment for firefighting if necessary.

Material Safety Data Sheet

Chemistry beyond chemicals



Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance white crystalline powder

Odour Odourless

Odour Threshold no data available

pH no data available

Melting/freezing point 93-94°C

Boiling point/range no data available

Flash point no data available

Evaporation rate no data available

Vapour pressure no data available

Vapour density no data available

Relative density no data available

Water solubility ca.3.3 g/l at 20 °C

LogPow 1.78

Auto-ignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties no data available

Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed

Stability Stable under recommended storage conditions.

Incompatibilities Acids, Strong oxidizing agents

Hazardous decomposition Products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides

Conditions to avoid Exposure to moisture

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation no data available

Serious eye damage/irritation no data available

Respiratory/skin sensitization no data available

Germ cell mutagenicity no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	SF8437000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	Very toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	2811
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S. (1,10-PHENANTHROLINE HYDRATE)
Hazard class	6.1
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
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Владикавказ (8672)28-90-48
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
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Киров (8332)68-02-04
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Красноярск (391)204-63-61
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Магнитогорск (3519)55-03-13
Москва (495)268-04-70
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Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
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Уфа (347)229-48-12
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Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
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