Химикаты для молекулярной биологии, индикаторная бумага МВ

Технические характеристики

Виды товаров: 2-пропанол, ацетон , ацетонитрил, акриламид, ацетат аммония, хлорид аммония, сульфат аммония, борная кислота, хлороформ, дихлорметан, глицин, гуанидин, имидазол, ацетат магния, сульфат магния, фенол, ацетат калия, хлорид калия, дигидроген ортофосфат калия, ацетат натрия безводный, хлорид натрия, раствор хлорида натрия, гидрокарбонат натрия, лаурилсульфат натрия, лаурилсульфата натрия, сахароза, гидроксиметил, трис-гидроксиметиламинометанборат, тринатрийцитрат, мочевина, вода, ярко-желтая бумага, бромтимоловая синяя бумага, тест-полоски на хлор, бумага из хлорида кобальта, красная бумага конго, индикаторная бумага ph 1,0-10,5, бумага из ацетата свинца, лакмусовая синяя индикаторная бумага, лакмусовая красная индикаторная бумага, индикаторная бумага фенолфталеин, крахмально-йодистая бумага, куркумовая реактивная бумага, универсальная индикаторная бумага и др.

По вопросам продаж и поддержки обращайтесь:

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Киров (8332)68-02-04
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Кострома (4942)77-07-48
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Красноярск (391)204-63-61
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Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
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Новосибирск (383)227-86-73
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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
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Самара (846)206-03-16
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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
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70 Казахстан +7(7172)727-132 Киргизия +996(312)96-26-47

эл.почта: hsf@nt-rt.ru || сайт: https://hplc.nt-rt.ru/

Molecular Biology

CODE	PRODUCT NAME	CAS NO.
MB0135	2-Propanol for Molecular Biology	67-63-0
MB0002	Acetone for Molecular Biology	67-64-1
MB0003	Acetonitrile for Molecular Biology	75-05-8
MB0021	Acetonitrile with 0.1% Acetic Acid for LCMS	
MB0022	Acetonitrile with 0.1% Formic Acid for LCMS	
MB0023	Acetonitrile with 0.1% Trifluoroacetic Acid for LCMS	
MB0004	Acrylamide 3x Cryst. 99.9% for Molecular Biology	79-06-1
MB0006	Ammonium Acetate 5 M Solution for Molecular Biology	631-61-8
MB0005	Ammonium Acetate for Molecular Biology	631-61-8
MB0016	Ammonium Chloride for Molecular Biology	12125-02-9
MB0018	Ammonium Sulphate 3.2 M Solution for Molecular Biology	
MB0017	Ammonium Sulphate for Molecular Biology	7783-20-2
MB0031	Boric Acid for Molecular Biology	10043-35-3
MB0040	Chloroform for Molecular Biology	67-66-3
MB0046	Dichloro Methane for Molecular Biology	75-09-2
MB0129	di-Potassium Hydrogen Ortho Phosphate for Molecular Biology	7758-11-4

MB0169	di-Sodium Hydrogen Ortho Phosphate Anhydrous for Molecular Biology	7558-79-4
MB0171	di-Sodium Hydrogen Ortho Phosphate Dihydrate for Molecular Biology	10028-24-7
MB0051	Ethylene Diamine Tetra Acetic Acid Disodium Salt Dihydrate for Molecular Biology	6381-92-6
MB0071	Glycine for Molecular Biology	56-40-6
MB0075	Guanidine Hydrochloride for Molecular Biology	50-01-1
MB0081	Imidazole for Molecular Biology	288-32-4
MB0092	Magnesium Acetate for Molecular Biology	16674-78-5
MB0099	Magnesium Sulphate for Molecular Biology	10034-99-8
MB0106	Methylene Blue Stock Solution 0.2% Molecular Biology	
MB0107	Methylene Blue Stock Solution 0.25% Molecular Biology	
MB0110	Phenol for Molecular Biology	108-95-2
MB0113	Phenol:Chloroform 2:1 for Molecular Biology	
MB0121	Potassium Acetate for Molecular Biology	127-08-2
MB0123	Potassium Chloride for Molecular Biology	7447-40-7
MB0126	Potassium Dihyrogen Ortho Phosphate for Molecular Biology	7778-77-0
MB0151	Sodium Acetate Anhydrous for Molecular Biology	127-09-3
MB0156	Sodium Chloride for Molecular Biology	7647-14-5

MB0157	Sodium Chloride Solution 4M Molecular Biology	
MB0166	Sodium Hydrogen Carbonate for Molecular Biology	144-55-8
MB0176	Sodium Lauryl Sulphate for Molecular Biology	151-21-3
MB0177	Sodium Lauryl Sulphate Solution 10%	151-21-3
MB0191	Sucrose for Molecular Biology	57-50-1
MB0206	Tris (Hydroxymethyl) Aminomethane for Molecular Biology	77-86-1
MB0208	Tris (Hydroxymethyl) Aminomethane Hydrochloride for Molecular Biology	1185-53-1
MB0210	Tris (Hydroxymethyl) Aminomethane pH 8.0 Solution for Molecular Biology	
MB0214	Tris Hydroxymethyl Aminomethane EDTA Buffer (TE)	
MB0211	Tris Hydroxymethyl Aminomethane Borate EDTA Buffer (TBE)	
MB0212	Tris Hydroxymethyl Aminomethane Borate EDTA Buffer (TBE)	
MB0213	Tris Hydroxymethyl Aminomethane Borate EDTA Buffer (TBE)	
MB0159	tri-Sodium Citrate for Molecular Biology	6132-04-3
MB0311	Urea for Molecular Biology	57-13-6
MB0312	Urea Solution Molecular Biology	
MB0350	Water for Molecular Biology	7732-18-5

Material Safety Data Sheet

Chemistry beyond chemicals

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

Chemical name	Acetone
Cat No.	MB0002
CAS-No.	67-64-1
M.W.	58.08
EC-No.	200-662-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	67-64-1
Percent	>99.8%
Substance/Mixture	Substance
Synonym	2-Propanone; Dimethyl ketone
Chemical Formula	$(CH_3)_2CO$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

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

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing vapours.
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 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clear colourless liquid
Odour	Like-Fruit
Odour Threshold	0.1 - 662.5 ppm
pH	5 - 6 at 395 g/l 20 °C
Melting/freezing point	-95.4 °C
Boiling point/range	56.2 °C at 1,013 hPa
Flash point	< -20 °C
Evapouration rate	no data available
Vapour pressure	233 hPa at 20 °C
Vapour density	2.01
Relative density	0.789-0.791 g
Water solubility	at 20 °C soluble
LogPow	-0.24
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	0.32 mPa.s at 20 °C
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Vapours may form explosive mixture with air.
Stability	Sensitivity to light, Sensitive to air.
Incompatibilities	rubber, various plastics
Hazardous decomposition products	no data available
Conditions to avoid	Warming

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 Rat: 5,800 mg/kg Acute inhalation toxicity LC50 Rat: 76 mg/l; 4 h Acute dermal toxicity LD50 Rabbit: 20,000 mg/kg
Skin corrosion/irritation	Rabbit Result: No irritation
Serious eye damage/irritation	Rabbit Result: Eye irritation
Respiratory/skin sensitization	Maximisation Test Guinea pig Result: negative
Germ cell mutagenicity	Genotoxicity in vivo Micronucleus test Result: negative
Carcinogenicity	no data available

Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure**:** May cause drowsiness or dizziness.
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 Oncorhynchus mykiss (rainbow trout): 5,540 mg/l; 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 Daphnia magna (Water flea): 6,100 mg/l; 48 h
Persistence/degradation	
Biodegradability	Result: 91 % - 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	1090
Proper shipping name	Acetone
Hazard class	3
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.

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	Acetonitrile with 0.1% Acetic Acid for LCMS
Cat No.	MB0021
CAS-No.	-
M.W.	41.05
EC-No.	200-835-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	>99.5%
Substance/Mixture	Mixture
Synonym	-
Chemical Formula	CH_3CN

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids	(Category 2)
Acute toxicity, Oral	(Category 4)
Acute toxicity, Inhalation	(Category 4)
Acute toxicity, Dermal	(Category 4)
Eye irritation	(Category 2)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols

Signal word

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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 equipmentfor 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. 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 insuitable, 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	clear colourless liquid
Odour	ether-like
Odour Threshold	no data available
pH	no data available
Melting/freezing point	-45.7°C at 1.013 hPa
Boiling point/range	80-82°C
Flash point	2.0°C -closed cup
Evapouration rate	5.8
Vapour pressure	no data available
Vapour density	1.42 - (Air = 1.0)
Relative density	0.780-0.783g
Water solubility	completely miscible
LogPow	-0.54 at 25 °C
Auto-ignition temperature	524.0 °C
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals
Hazardous decomposition products	no data available
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	Skin – rabbit Result: No skin irritation (OECD Test Guideline 404)
Serious eye damage/irritation	Eyes – rabbit Result: Irritating to eyes. (OECD Test Guideline 405)
Respiratory/skin sensitization	Buehler Test - guinea pig Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406)
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	Animal testing did not show any effects on fertility.
Specific target organ toxicity	Single exposure **:** The substance or mixture is not classified as specific target organ toxicant,single exposure.
Specific target organ toxicity	Repeated exposure**:** The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	No aspiration toxicity classification
RTECS	AL7700000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 1.640,00 mg/l - 96 h NOEC - Oryzias latipes - 102 mg/l - 21 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3.600 mg/l - 48 h (OECD Test Guideline 202) NOEC - Daphnia magna (Water flea) - 160 mg/l - 21 d

Persistence/degradation

Biodegradability	Result: 84 % - Readily biodegradable. (OECD Test Guideline 301C)

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	1648
Proper shipping name	Acetonitrile Solution
Hazard class	3
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.

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	Acetonitrile with 0.1% Formic Acid for LCMS
Cat No.	MB0022
CAS-No.	-
M.W.	41.05
EC-No.	200-835-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	>99.5%
Substance/Mixture	Mixture
Synonym	-
Chemical Formula	CH_3CN

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids	(Category 2)
Acute toxicity, Oral	(Category 4)
Acute toxicity, Inhalation	(Category 4)
Acute toxicity, Dermal	(Category 4)
Eye irritation	(Category 2)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols

Signal word

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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 equipmentfor 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. 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 insuitable, 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	clear colourless liquid
Odour	ether-like
Odour Threshold	no data available
pH	no data available
Melting/freezing point	-45.7°C at 1.013 hPa
Boiling point/range	80-82°C
Flash point	2.0°C -closed cup
Evapouration rate	5.8
Vapour pressure	no data available
Vapour density	1.42 - (Air = 1.0)
Relative density	0.780-0.783g
Water solubility	completely miscible
LogPow	-0.54 at 25 °C
Auto-ignition temperature	524.0 °C
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals
Hazardous decomposition products	no data available
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	Skin – rabbit Result: No skin irritation (OECD Test Guideline 404)
Serious eye damage/irritation	Eyes – rabbit Result: Irritating to eyes. (OECD Test Guideline 405)
Respiratory/skin sensitization	Buehler Test - guinea pig Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406)
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	Animal testing did not show any effects on fertility.
Specific target organ toxicity	Single exposure **:** The substance or mixture is not classified as specific target organ toxicant,single exposure.
Specific target organ toxicity	Repeated exposure**:** The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	No aspiration toxicity classification
RTECS	AL7700000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 1.640,00 mg/l - 96 h NOEC - Oryzias latipes - 102 mg/l - 21 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3.600 mg/l - 48 h (OECD Test Guideline 202) NOEC - Daphnia magna (Water flea) - 160 mg/l - 21 d

Persistence/degradation

Biodegradability	Result: 84 % - Readily biodegradable. (OECD Test Guideline 301C)

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	1648
Proper shipping name	Acetonitrile Solution
Hazard class	3
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.

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	Acetonitrile with 0.1% Trifluoroacetic Acid for LCMS
Cat No.	MB0023
CAS-No.	-
M.W.	41.05
EC-No.	200-835-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	>99.5%
Substance/Mixture	Mixture
Synonym	-
Chemical Formula	CH_3CN

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids	(Category 2)
Acute toxicity, Oral	(Category 4)
Acute toxicity, Inhalation	(Category 4)
Acute toxicity, Dermal	(Category 4)
Eye irritation	(Category 2)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols

Signal word

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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 equipmentfor 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. 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 insuitable, 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	clear colourless liquid
Odour	ether-like
Odour Threshold	no data available
pH	no data available
Melting/freezing point	-45.7°C at 1.013 hPa
Boiling point/range	80-82°C
Flash point	2.0°C -closed cup
Evapouration rate	5.8
Vapour pressure	no data available
Vapour density	1.42 - (Air = 1.0)
Relative density	0.780-0.783g
Water solubility	completely miscible
LogPow	-0.54 at 25 °C
Auto-ignition temperature	524.0 °C
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals
Hazardous decomposition products	no data available
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	Skin – rabbit Result: No skin irritation (OECD Test Guideline 404)
Serious eye damage/irritation	Eyes – rabbit Result: Irritating to eyes. (OECD Test Guideline 405)
Respiratory/skin sensitization	Buehler Test - guinea pig Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406)
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	Animal testing did not show any effects on fertility.
Specific target organ toxicity	Single exposure **:** The substance or mixture is not classified as specific target organ toxicant,single exposure.
Specific target organ toxicity	Repeated exposure**:** The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	No aspiration toxicity classification
RTECS	AL7700000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 1.640,00 mg/l - 96 h NOEC - Oryzias latipes - 102 mg/l - 21 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3.600 mg/l - 48 h (OECD Test Guideline 202) NOEC - Daphnia magna (Water flea) - 160 mg/l - 21 d

Persistence/degradation

Biodegradability	Result: 84 % - Readily biodegradable. (OECD Test Guideline 301C)

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	1648
Proper shipping name	Acetonitrile Solution
Hazard class	3
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.

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	Acrylamide 3x Cryst. for Molecular Biology
Cat No.	MB0004
CAS-No.	79-06-1
M.W.	71.08
EC-No.	201-173-7
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	79-06-1
Percent	> 99.9%
Substance/Mixture	Substance
Synonym	Ethylenecarboxamide; 2-Propenamide
Chemical Formula	C_3H_5NO

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Carcinogenicity	(Category 1B)
Germ cell mutagenicity	(Category 1B)
Reproductive toxicity	(Category 2)
Acute toxicity, Oral	(Category 3)
Specific target organ toxicity -repeated exposure	(Category 1)
Acute toxicity, Inhalation	(Category 4)
Acute toxicity, Dermal	(Category 4)
Eye irritation	(Category 2)
Skin irritation	(Category 2)
Skin sensitization	(Category 1)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H301	Toxic if swallowed.
H312 + H332	Harmful in contact with skin or if inhaled
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201	Obtain special instructions before use.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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)
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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless crystaline powder.
Odour	Odourless
Odour Threshold	no data available
pH	no data available
Melting/freezing point	82-86 °C
Boiling point/range	125 °C at 33.3 hPa
Flash point	138 °C
Evapouration rate	no data available
Vapour pressure	0.009 hPa at 25 °C
Vapour density	2.45
Relative density	no data available
Water solubility	soluble
LogPow	-0.9 (20 °C)
Auto-ignition temperature	no data available
Decomposition temperature	175 - 300 °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	Stable under recommended storage conditions
Incompatibilities	Acids, Oxidizing agents, Iron and iron salts., Copper, Brass, Free radical initiators
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx)
Conditions to avoid	No data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	Skin-Rabbit	Result: No skin irritation

Serious eye damage/irritation	Eyes-Rabbit Result: Irritating to eyes.
Respiratory/skin sensitization	Maximisation Test-Guinea pig May cause allergic skin reaction.
Germ cell mutagenicity	May alter genetic material. In vivo tests showed mutagenic effects
Carcinogenicity	This product is or contains a component that has been reported to be proba EPA classification. Possible human carcinogen IARC:2A-Group 2A: Probably carcinogenic to humans
Reproductive toxicity	Animal testing did not show any effects on foetal development.

May cause reproductive disorders. Suspected human reproductive toxicant

Specific target organ toxicity	Single exposure**:** no data available
Specific target organ toxicity	repeated exposure: Oral-Causes damage to organs through prolonged or repeated exposure.-Peripheral nervous system
Aspiration hazard	no data available
RTECS	RTECS: AS3325000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	LC50-Pimephales promelas (fathead minnow)-90 mg/l-96 h NOEC-Cyprinus carpio (Carp)-5 mg/l-28 d
Toxicity to daphnia and other aquatic invertebrates:	mortality NOEC-Daphnia magna (Water flea)-60 mg/l-48 h
Persistence/degradation	Biodegradability Result: 100 %-Readily biodegradable
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	2074
Proper shipping name	ACRYLAMIDE, SOLID
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	Ammonium Acetate Solution 5 M for Molecular Biology
Cat No.	MB0006
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	5.0 M
Substance/Mixture	Mixture
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	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	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	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.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clear colourless liquid
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
Evapouration 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

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
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

Material Safety Data Sheet

Chemistry beyond chemicals

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 Acetate for Molecular Biology
Cat No.	MB0005
CAS-No.	631-61-8
M.W.	77.08
EC-No.	211-162-9
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	631-61-8
Percent	99.0%
Substance/Mixture	Substance
Synonym	Acetic Acid Ammonium Salt
Chemical Formula	CH_3COONH_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	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.
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 hygroscopic crystals
Odour	no data available
Odour Threshold	no data available
pH	6.5-7.5
Melting/freezing point	110 - 112 °C
Boiling point/range	no data available
Flash point	no data available
Evapouration rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	completely 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, Strong acids.
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	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 - Cyprinus carpio (Carp) - 56 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	Biodegradability Result: - 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.

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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 Chloride
Cat No.	MB0016
CAS-No.	12125-02-9
M.W.	53.49
EC-No.	235-186-4
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	12125-02-9
Percent	>99.5%
Substance/Mixture	Substance
Synonym	-
Chemical Formula	NH_4Cl

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, 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	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

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	White crystalline powder
Odour	odourless
Odour Threshold	Not applicable
pH	ca. 4.7 at 200 g/l 25 °C
Melting/freezing point	338 °C (sublimed)
Boiling point/range	Not applicable
Flash point	Not applicable
Evapouration rate	no data available
Vapour pressure	66 hPa at 250 °C, 1.3 hPa at 30 °C
Vapour density	1.53 g/cm3 at 25 °C
Relative density	no data available
Water solubility	372 g/l at 20 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	Not applicable
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	sublimable
Incompatibilities	Aluminium, Lead, Iron, Copper, copper compounds
Hazardous decomposition products	no data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral toxicity LD50 Rat: 1,410 mg/kg Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Acute inhalation toxicity Symptoms: Possible damages:, mucosal irritations Acute dermal toxicity LD50 Rat: > 2,000 mg/kg
Skin corrosion/irritation	Skin - rabbit Result: No skin irritation
Serious eye damage/irritation	Eyes - rabbit Result: Eye irritation
Respiratory/skin sensitization	Maximisation Test Guinea pig Result: negative
Germ cell mutagenicity	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**:** no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	LC50 Oncorhynchus mykiss (rainbow trout): 42.91 mg/l; 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 Daphnia magna (Water flea): > 100 mg/l; 48 h
Toxicity to bacteria	static test EC50 activated sludge: 1,310 mg/l; 0.5 h
Toxicity to fish (Chronic toxicity)	flow-through test EC10 Lepomis macrochirus (Bluegill sunfish): 4.28 mg/l; 30 d
Persistence/degradation	Biodegradability The methods for determining the biological degradability are not applicable to inorganic substances.
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
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	Ammonium Sulphate Solution 3.2M for Molecular Biology
Cat No.	MB0018
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	3.2 M
Substance/Mixture	Mixture
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	Nitrogen oxides (NOx), 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	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	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.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clear colourless liquid
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
Evapouration 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	Nitrogen oxides (NOx), 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	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

Material Safety Data Sheet

Chemistry beyond chemicals

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	Ammonium Sulphate for Molecular Biology
Cat No.	MB0017
CAS-No.	7783-20-2
M.W.	132.13
EC-No.	231-984-1
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	7783-20-2
Percent	>99.5%
Substance/Mixture	Substance
Synonym	-
Chemical Formula	$(NH_4)_2SO_4$

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 (NOx), Sulphur oxides.
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	The product itself does not burn.

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	no data available
Odour Threshold	no data available
pH	5.0-6.0
Melting/freezing point	> 280 °C - dec.
Boiling point/range	no data available
Flash point	no data available
Evapouration rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1,77 g/cm3 at 25 °C
Water solubility	754 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	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 products	Nitrogen oxides (NOx), Sulphur oxides
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	Rabbit Result: No irritation
Serious eye damage/irritation	Rabbit Result: No eye irritation
Respiratory/skin sensitization	Maximisation Test - Guinea pig Result: Does not cause skin sensitisation.
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	BS4500000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - > 460 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia (water flea) - 129 mg/l - 48 h
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.

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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	Di-Potassium Hydrogen Orthophosphate Anhydrous for Molecular Biology
Cat No.	MB0129
CAS-No.	7758-11-4
M.W.	174.18
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	7758-11-4
Percent	> 99.5%
Substance/Mixture	Substance
Synonym	Potassium phosphate dibasic
Chemical Formula	K_2HPO_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	Oxides of phosphorus
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.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white crystals/crystalline powder
Odour	odourless
Odour Threshold	no data available
pH	ca.9 at 10 g/l 20 °C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evapouration rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	2,300 g/cm^3
Water solubility	1,600 g/l at 20 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	> 180 °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	The product is chemically stable under standard ambient conditions (room temperature)
Incompatibilities	Strong oxidizing agents.
Hazardous decomposition products	Oxides of phosphorus
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	slight irritation
Serious eye damage/irritation	slight irritation
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Genotoxicity in vitro Ames test 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

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	Glycine for Molecular Biology
Cat No.	MB0071
CAS-No.	56-40-6
M.W.	75.07
EC-No.	200-272-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	56-40-6
Percent	> 99.0%
Substance/Mixture	Substance
Synonym	Aminoacetic acid ; Gly;Iconyl;Monazol
Chemical Formula	$C_2H_5NO_2$

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).
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	white crystalline powder
Odour	no data available
Odour Threshold	no data available
pH	5.9-6.4
Melting/freezing point	240 °C
Boiling point/range	no data available
Flash point	no data available
Evapouration 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

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	MB7600000

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	Imidazole for Molecular Biology
Cat No.	MB0081
CAS-No.	288-32-4
M.W.	68.08
EC-No.	206-019-2
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	1,3-Diazole
CAS No.	288-32-4
Percent	>99.5%
Substance/Mixture	Substance
Synonym	Glyoxaline; 1H-Imidazole
Chemical Formula	$C_3H_4N_2$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral	(Category 4)
Skin corrosion	(Category 1B)
Reproductive toxicity	(Category 1B)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols

Signal word

Danger

Hazard statement(s)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H360D	May damage the unborn child.

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 POISON CENTER or doctor/ physician.

Risk Phrases

R22	Harmful if swallowed.
R34	Causes burns.
R61	May cause harm to the unborn child.

Safety Phrases

S53	Avoid exposure - obtain special instructions before use.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36	Wear suitable protective clothing.
S37	Wear suitable gloves.
S39	Wear eye / face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)

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, Hydrogen cyanide.
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	white to pale yellow crystalline powder
Odour	amine-like
Odour Threshold	no data available
pH	10.5 at 67 g/l 20 °C
Melting/freezing point	90 °C
Boiling point/range	268 °C at 1,013 hPa
Flash point	145 °C
Evapouration rate	no data available
Vapour pressure	0.003 hPa at 20 °C
Vapour density	no data available
Relative density	no data available
Water solubility	633 g/l at 20 °C
LogPow	-0.02
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	2.696 mPa.s at 100 °C
Explosive properties	no data available
Oxidizing properties	no data available

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. 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	Acids, Acid anhydrides, Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides, Nitrogen oxides, Hydrogen cyanide.
Conditions to avoid	Strong heating

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	Rabbit Result: Corrosive
Serious eye damage/irritation	Rabbit Result: Causes serious eye damage.
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Genotoxicity in vivo In vivo micronucleus test Mouse male and female Oral Bone marrow 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	NI3325000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	LC50 Leuciscus idus (Golden orfe): ca.280 mg/l; 48 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 Daphnia magna (Water flea): 341.5 mg/l; 48 h
Persistence/degradation	Biodegradability 90 -100 %; 18 d; aerobic 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	3263
Proper shipping name	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.(IMIDAZOLE)
Hazard class	8
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.

Material Safety Data Sheet

Chemistry beyond chemicals

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

Chemical name	Magnesium Acetate Tetrahydrate
Cat No.	MB0092
CAS-No.	16674-78-5
M.W.	214.46
EC-No.	205-554-9
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	16674-78-5
Percent	99.0%
Substance/Mixture	Substance
Synonym	Magnesium acetate hydrated; Acetic acid magnesium salt
Chemical Formula	$(CH_3.COO)_2\,Mg.4H_2O$

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	Not combustible. Ambient fire may liberate hazardous vapours.
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	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	white deliquescent crystals
Odour	Odourless
Odour Threshold	Not applicable
pH	6.1at 50 g/l20 °C
Melting/freezing point	80°C
Boiling point/range	Not applicable, (decomposition)
Flash point	does not flash
Evapouration rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1.45 g/cm3
Water solubility	1,200 g/l at 15 °C
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	>135 °C
Viscosity	no data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Violent reactions possible with: Strong acids, strong alkalis
Stability	releases water of crystallisation when heated.
Incompatibilities	no data available
Hazardous decomposition products	no data available
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	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 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	Phenol for Molecular Biology
Cat No.	MB0110
CAS-No.	108-95-2
M.W.	94.11
EC-No.	203-632-7
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	Carbolic acid
CAS No.	108-95-2
Percent	>99.5%
Substance/Mixture	Substance
Synonym	Hydroxy benzene
Chemical Formula	$C_6H_5.OH$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral	(Category 3)
Acute toxicity, Inhalation	(Category 3)
Acute toxicity, Dermal	(Category 3)
Skin corrosion	(Category 1B)
Germ cell mutagenicity	(Category 2)
Specific target organ toxicity - repeated exposure	(Category 2)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
H314 Causes severe skin burns and eye damage.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P261 Avoid breathing dust.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + 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.
P310 Immediately call a POISON CENTER or doctor/ physician.

Risk Phrases

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R68 Possible risk of irreversible effects.

Safety Phrases

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of soap-suds.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)

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	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	colourless crystals
Odour	characteristic
Odour Threshold	no data available
pH	ca.5 at 50 g/l 20 °C
Melting/freezing point	40.8ºC
Boiling point/range	181.8 °C at 1,013 hPa
Flash point	81.0 °C - closed cup
Evapouration rate	no data available
Vapour pressure	0.2 hPa at 20 °C
Vapour density	3.24
Relative density	1.07 g/cm3
Water solubility	84 g/l at 20 °C
LogPow	1.47
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	3.437 mPa.s at 50 °C
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.

	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Stability	Sensitivity to light
Incompatibilities	Strong oxidizing agents, Strong bases, Strong acids.
Hazardous decomposition products	rubber, various plastics, various alloys, various metals
Conditions to avoid	Strong heating

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	rabbit Result: Causes burns.
Serious eye damage/irritation	rabbit Result: Corrosive
Respiratory/skin sensitization	Sensitisation test: guinea pig Result: negative
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**:** May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	LC50 Oncorhynchus mykiss (rainbow trout): 5.0 mg/l; 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 Ceriodaphnia Dubia (water flea): 3.1 mg/l; 48 h
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	1671
Proper shipping name	Phenol, solid
Hazard class	6.1
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.

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	Sodium Chloride for Molecular Biology
Cat No.	MB0156
CAS-No.	7647-14-5
M.W.	58.44
EC-No.	231-598-3
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	7647-14-5
Percent	> 99.9%
Substance/Mixture	Substance
Synonym	-
Chemical Formula	NaCl

SECTION 3: HAZARDS IDENTIFICATION

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

Safety Phrases S24/25 Avoid contact with skin and eyes.

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 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.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white crystals/crystalline powder
Odour	Odourless
Odour Threshold	no data available
pH	4.5 - 7.0 at 100 g/l 20 °C

Melting/freezing point	801 °C
Boiling point/range	1,461 °C at 1,013 hPa
Flash point	no data available
Evapouration rate	no data available
Vapour pressure	1.3 hPa at 865 °C
Vapour density	no data available
Relative density	no data available
Water solubility	358 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	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	Hydrogen chloride gas
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	No skin irritation
Serious eye damage/irritation	No eye irritation
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	Genotoxicity in vitro Mutagenicity (mammal cell test): micronucleus. 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

Toxicity to fish	LC50 Pimephales promelas (fathead minnow): 7,650 mg/l; 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 Daphnia magna (Water flea): 1,000 mg/l; 48 h
Persistence/degradation	Biodegradability The methods for determining the biological degradability are not applicable to inorganic substances.
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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Ph Indicator Papers

CODE	PRODUCT NAME	CAS NO.
PH0007	Brilliant Yellow Paper (10 bks)	
PH0011	Bromo Thymol Blue Paper (10 bks)	
PH0016	Chlorine test papers	
PH0018	Cobalt Chloride Paper	
PH0021	Congo Red Paper (10 bks)	
PH0079	Indicator Paper Kit	
PH0098	Indicator Paper Kit	
PH0077	Indicator Paper pH 1.0-14.0	
PH0081	Indicator Paper pH 2.0-10.5	
PH0080	Indicator Paper pH 2.0-4.5	
PH0082	Indicator Paper pH 3.5-6.0	
PH0084	Indicator Paper pH 3.8-5.3	
PH0087	Indicator Paper pH 5.0-7.5	
PH0090	Indicator Paper pH 6.5-9.0	

PH0093	Indicator Paper pH 8.0-10.5
PH0051	Lead Acetate Paper
PH0052	Litmus Blue Indicator Paper
PH0053	Litmus Red Indicator Paper
PH0076	Phenolphthalein Indicator Paper
PH0101	Starch Iodide Paper
PH0111	Turmeric Paper
PH0097	Universal Indicator Paper pH range 1-14

Material Safety Data Sheet

Chemistry beyond chemicals

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

Chemical name	Cobalt Chloride Paper
Cat No.	PH0018
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	-
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	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 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	light pink paper strips.
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
Evapouration 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	no data available
Hazardous decomposition products	no data available
Conditions to avoid	heat

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**:** 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.

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	Indicator Paper pH 1.0-14.0
Cat No.	PH0077
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	-
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	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 means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	paper lvs
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
Evapouration 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	no data available
Hazardous decomposition products	no data available
Conditions to avoid	heat

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**:** 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.

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	Indicator Paper pH 2.0-10.5
Cat No.	PH0081
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	-
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	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 means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	paper lvs
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
Evapouration 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	no data available
Hazardous decomposition products	no data available
Conditions to avoid	heat

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**:** 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.

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	Indicator Paper pH 8.0-10.5
Cat No.	PH0093
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	-
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	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 means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	paper lvs
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
Evapouration 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	no data available
Hazardous decomposition products	no data available
Conditions to avoid	heat

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**:** 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.

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	Litmus Blue Indicator Paper
Cat No.	PH0052
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	-
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	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 means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue paper strips
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
Evapouration 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	no data available
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**:** 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.

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	Litmus Red Indicator Paper
Cat No.	PH0053
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	-
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	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 means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red paper strips
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
Evapouration 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	no data available
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**:** 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.

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	Universal Indicator Paper pH 1.0-14.0
Cat No.	PH0097
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	-
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	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 means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	paper lvs
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
Evapouration 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	no data available
Hazardous decomposition products	no data available
Conditions to avoid	heat

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**:** 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.

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.

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
Владивосток (423)249-28-31
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Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
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Мурманск (8152)59-64-93
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Нижний Новгород (831)429-08-12
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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
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Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
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Саранск (8342)22-96-24
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Смоленск (4812)29-41-54
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Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70 Казахстан +7(7172)727-132 Киргизия +996(312)96-26-47

эл.почта: hsf@nt-rt.ru || сайт: https://hplc.nt-rt.ru/