Высокочистые растворители для анализа следов пестицидов PR, реагенты для органических ионных пар HP

Технические характеристики

Виды товаров: 2-пропанол, ацетон, ацетонитрил, хлороформ, циклогексан, дихлорметан, этилацетат, метанол, н-гептан, н-гексан, толуол, натриевые соли, моногидрат натриевой соли, натриевая соль, цетримид, цетил-п, лаурилсульфат натри, тетрабутиламмоний бромид, тетрабутиламмоний гидросульфат, тетрабутиламмоний иодид, тетраэтиламмоний бромид для синтеза и др.

По вопросам продаж и поддержки обращайтесь:

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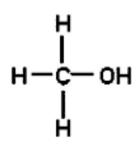
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High Purity Solvents For Pesticide Residue Trace Analysis



CODE	PRODUCT NAME	CAS NO.
PR0115	2-Propanol for Pesticide Residue Trace Analysis	67-63-0
PR0010	Acetone for Pesticide Residue Trace Analysis	67-64-1
PR0013	Acetonitrile for Pesticide Residue Trace Analysis	75-05-8
PR0033	Chloroform for Pesticide Residue Trace Analysis	67-66-3
PR0038	Cyclohexane for Pesticide Residue Trace Analysis	110-82-7
PR0046	Dichloro Methane for Pesticide Residue Trace Analysis	75-09-2
PR0055	Ethyl Acetate for Pesticide Residue Trace	141-78-6

PR0091	Methanol for Pesticide Residue Trace Analysis	67-56-1
PR0073	n-Heptane for Pesticide Residue Trace Analysis	142-82-5
PR0075	n-Hexane for Pesticide Residue Trace Analysis	110-54-3
PR0131	Toluene for Pesticide Residue Trace Analysis	108-88-3

Chemistry beyond chemicals



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

Chemical name 2-Propanol for Pesticide Residue Trace Analysis

Cat No. PR0115 67-63-0 CAS-No. 60.10 M.W. EC-No.

Company **Email**

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) Isopropyl alcohol

CAS No. 67-63-0 **Percent** >99.8% Substance/Mixture Substance

Synonym Propan-2-ol; Isopropanol; IPA

Chemical Formula (CH₃)₂CHOH

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)

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

Precautionary statement(s)

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

P261 Avoid breathing vapours.

IF IN EYES: Rinse cautiously with water for several minutes. P305 + P351 + P338

Remove contact lenses, if present and easy to do. Continue rinsing.

Risk Phrases

R11 Highly flammable. R36 Irritating to eyes.

Vapours may cause drowsiness and dizziness. R67

Safety Phrases

S7 Keep container tightly closed. S16 Keep away from sources of ignition. S24/25 Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek S26

medical advice.

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.

Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Eye contact

Get medical advice.

Do NOT induce vomiting. Rinse mouth with water. Get medical advice. Ingestion

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.

Chemistry beyond chemicals



Further information no data available SECTION 6: ACCIDENTAL RELEASE MEASURES

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

vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable Methods and materials for

containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate Handling

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

Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene **Engineering controls**

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.

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

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole Respiratory protection

means of protection, use a full-face supplied air respirator. Use respirators and components

tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance A clear colourless liquid

Odour alcohol-like

1.0 -196.1 ppm **Odour Threshold**

at 20 °C neutral pН Melting/freezing point -89.5 °C

Boiling point/range

82.4 °C at 1,013 hPa

Flash point 12.0 °C

no data available **Evapouration rate**

Vapour pressure 43 hPa at 20 °C

Vapour density 2.07

Relative density 0.783-0.786g Water solubility at 20 °C soluble

LogPow 0.05

Auto-ignition temperature no data available **Decomposition temperature** no data available Viscosity 2.2 mPa.s at 20 °C

Explosive properties no data available Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Formation of peroxides possible. Vapours may form explosive mixture with air. Reactivity

Stability Sensitivity to light, Sensitive to air.

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

Incompatibilities rubber, various plastics, oils

Hazardous decomposition

products

Peroxides

Conditions to avoid Warming

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Rabbit Result: No skin irritation Serious eye damage/irritation Rabbit Result: Eye irritation

Respiratory/skin sensitization Buehler Test Guinea pig Result: negative

Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative Germ cell mutagenicity

Carcinogenicity no data available Reproductive toxicity no data available

Chemistry beyond chemicals



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 flow-through test LC50 Pimephales promelas (fathead minnow): 9,640 mg/l; 96

Toxicity to daphnia and EC50 Daphnia magna (Water flea): 13,299 mg/l; 48 h

other aquatic invertebrates

Persistence/degradation Biodegradability 95 %; 21 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 1219

Proper shipping name ISOPROPANOL

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.

Chemistry beyond chemicals



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

Chemical name Acetone for Pesticide Residue Trace Analysis

 Cat No.
 PR0010

 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 (CH₃)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

Chemistry beyond chemicals



vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for 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.

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
Decomposition temperature
Viscosity
Decomposition temperature
Niscosity
Decomposition temperature
Niscosity
Decomposition temperature
Niscosity
Niscos

SECTION 10: STABILITY AND REACTIVITY

Reactivity Vapours may form explosive mixture with air.

Stability Sensitivity to light, Sensitive to air.

Incompatibilities rubber, various plastics no data available

products

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 Innaiation toxicity LC50 Rat: 76 mg/l; 4 n Acute dermal toxicity LD50 Rabbit: 20,000 mg/kg

Skin corrosion/irritation Rabbit Result: No irritation Serious eye damage/irritation Rabbit Result: Eye irritation

Germ cell mutagenicity Genotoxicity in vivo Micronucleus test Result: negative

Carcinogenicity no data available

Chemistry beyond chemicals

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 EC50 Daphnia magna (Water flea): 6,100 mg/l; 48 h

other aquatic invertebrates 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.



Chemistry beyond chemicals



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

Chemical name Acetonitrile for Pesticide Residue Trace Analysis

 Cat No.
 PR0013

 CAS-No.
 75-05-8

 M.W.
 41.05

 EC-No.
 200-835-2

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 75-05-8
Percent >99.9%
Substance/Mixture Substance

Synonym Methyl cyanide ; Cyanomethane

Chemical Formula CH₃CN

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

Hazard statement(s)

Danger

H225 Highly flammable liquid and vapour.

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled

H319 Causes serious eye irritation.

Precautionary statement(s)

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

P280 Wear protective gloves/ protective clothing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides, nitrogen oxides (NOx)

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Chemistry beyond chemicals



vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep insuitable,

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.

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 no data available no data available Melting/freezing point -45.7°C at 1.013 hPa

Boiling point/range 80-83°C

Flash point 2.0°C -closed cup

Evapouration rate 5.8

Vapour pressure 73,18 hPa at 15 °C

121.44 hPa at 25 °C 413.23 hPa at 55 °C 98.64 hPa at 20 °C 1.42 - (Air = 1.0)

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 temperatureno data availableViscosityno data availableExplosive propertiesNot 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 no data available

products

Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity LD50 Oral - rat - male - 1.320 - 6.690 mg/kg

LC50 Inhalation - mouse - 4 h - 3587 ppm (OECD Test Guideline 403)

LC50 Inhalation - rat - 4 h - 26,8 mg/l

LD50 Dermal - rabbit - male and female - > 2.000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation Skin – rabbit Result: No skin irritation (OECD Test Guideline 404)

Chemistry beyond chemicals



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

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.

Chemistry beyond chemicals



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

Chemical name Chloroform for Pesticide Residue Trace Analysis

 Cat No.
 PR0033

 CAS-No.
 67-66-3

 M.W.
 119.38

 EC-No.
 200-663-8

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 67-66-3
Percent >99.0 %
Substance/Mixture Substance

Synonym Trichloromethane; Methyl trichloride

Chemical Formula CHCl₃

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 4) Acute toxicity, Inhalation (Category 3) Skin irritation (Category 2) Eve irritation (Category 2) Carcinogenicity (Category 2) Reproductive toxicity (Category 2) Specific target organ toxicity - single exposure (Category 3) Specific target organ toxicity - repeated exposure (Category 1)

GHS LABEL ELEMENTS





Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs (Liver, Kidney) through prolonged or repeated exposure.

Precautionary statement(s)

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/

phyician.

Risk Phrases

R22 Harmful if swallowed.

R40 Limited evidence of a carcinogenic effect.

R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through

inhalation and if swallowed.

Safety Phrases

S36/37 Wear suitable protective clothing and gloves.

SECTION 4: FIRST AID MEASURES

Chemistry beyond chemicals



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, 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 precautionsUse 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

closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

containment and cleaning up

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 protectionUse 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 Sweet

Odour Threshold 84.9-201.5 ppm no data available

Melting/freezing point -63°C

Boiling point/range ca.61 °C at 1,013 hPa Flash point no data available Evapouration rate no data available

Vapour pressure 211 hPa at 20 °C

Vapour density 4.25

Relative density 1.474-1.480g Water solubility 8.7 g/l at 23 °C

LogPow 2

Auto-ignition temperature no data available no data available viscosity no data available no data available oxidizing properties no data available no data available no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability Stable under recommended storage conditions.

Chemistry beyond chemicals



Incompatibilities rubber, various plastics no data available

products

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Skin – Rabbit Result: Irritating to skin. - 24 h **Serious eye damage/irritation** Eyes – Rabbit Result: Irritating to eyes. - 24 h

Respiratory/skin sensitization no data available

Germ cell mutagenicity Laboratory experiments have shown mutagenic effects.

Carcinogenicityno data availableReproductive toxicityno data available

Specific target organ toxicity Single exposure: no data available

Specific target organ toxicity Repeated exposure: The substance or mixture is classified as specific target organ toxicant,

repeated exposure, category 1. -Liver, Kidney

Aspiration hazard no data available RTECS FS9100000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 Lepomis macrochirus (Bluegill sunfish): 18 mg/l; 96 h

Toxicity to daphnia and EC50 Daphnia magna (Water flea): 79 mg/l; 48 h

other aquatic invertebrates

Persistence/degradation Biodegradability 0 %; 14 d Not 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 1888
Proper shipping name Chloroform
Hazard class 6.1
Packaging group III

SECTION 15: REGULATORY INFORMATION

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

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

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



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

Chemical name Cyclohexane for Pesticide Residue Trace Analysis

 Cat No.
 PR0038

 CAS-No.
 110-82-7

 M.W.
 84.16

 EC-No.
 203-806-2

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 110-82-7
Percent 99.8%
Substance/Mixture Substance

Synonym

Chemical Formula CH₂.(CH₂)₄.CH₂

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquid Category 2
Skin irritation Category 2
Specific target organ toxicity - single exposure Category 3
Aspiration hazard Category 1
Acute aquatic toxicity Category 1
Chronic aquatic toxicity Category 1

GHS LABEL ELEMENTS









Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P501 Dispose of contents/container to.....

Risk Phrases

R11 Highly flammable. R38 Irritating to skin.

R65 Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Safety Phrases

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking.

S25 Avoid contact with eyes.

S33 Take precautionary measures against static discharges.

Use only in well-ventilated areas.

This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Chemistry beyond chemicals



S62 If swallowed, do not induce vomiting: seek medical advice immediately and show

this container or label.

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.

Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Eye contact

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards no data available

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Remove all sources of ignition.

Prevent further leakage/spillage. Do not let product enter drains/rivers. **Environmental precautions**

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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate Handling

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

Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene **Engineering controls**

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.

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole Respiratory protection

means of protection, use a full-face supplied air respirator. Use respirators and components

tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance A Clear colorless liquid.

Odour Sweet **Odour Threshold** 0.5 ppm

рΗ no data available

Melting/freezing point 6.5 °C Boiling point/range 80-82°C -18 °C Flash point

Evapouration rate no data available

Vapour pressure 124 hPa at 24 °C

Vapour density 2.9

Relative density 0.776-0.780 q 0.05 g/l at 20 °C Water solubility

LogPow 3.44

Auto-ignition temperature no data available **Decomposition temperature** no data available **Viscosity** 0.98 mPa.s at 20 °C **Explosive properties** no data available **Oxidizing properties** no data available

Chemistry beyond chemicals



Reactivity Vapours may form explosive mixture with air.

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

Incompatibilitiesrubber, various plasticsHazardous decompositionno data available

products

Conditions to avoid Warming.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity Acute oral toxicity: LD50 Rat: > 5,000 mg/kg

Acute inhalation toxicity: LC50 Rat: > 33.88 mg/l; 4 h Acute dermal toxicity: LD50 Rabbit: > 2,000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Rabbit Result: No eye irritation

Respiratory/skin sensitization Buehler Test Guinea pig Result: Does not cause skin sensitisation.

Germ cell mutagenicity Genotoxicity in vivo: Chromosome aberration test Rat male and female inhalation (vapour)

Bone marrow Result: negative

Genotoxicity in vitro: Ames test Salmonella typhimurium 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 Aspiration may cause pulmonary oedema and pneumonitis.

RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish: flow-through test LC50 Pimephales promelas: 4.53 mg/l; 96 h

Toxicity to daphnia and

other aquatic invertebrates: static test EC50 Daphnia magna (Water flea): 0.9 mg/l; 48 h

Persistence/degradation Biodegradability 77 %; 28 d; 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 1145

Proper shipping name CYCLOHEXANE

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.

Chemistry beyond chemicals



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

Chemical name Dichloro Methane for Pesticide Residue Trace Analysis

 Cat No.
 PR0046

 CAS-No.
 75-09-2

 M.W.
 84.93

 EC-No.
 200-838-9

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) Methylene Chloride

CAS No. 75-09-2
Percent >99.8%
Substance/Mixture Substance

Synonym Methylene Chloride

Chemical Formula CH₂Cl₂

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin irritation (Category 2)
Eye irritation (Category 2)
Carcinogenicity (Category 2)
Specific target organ toxicity - single exposure (Category 3)
Specific target organ toxicity - repeated exposure, Oral (Category 2)
Specific target organ toxicity - repeated exposure, Inhalation (Category 2)

GHS LABEL ELEMENTS



Warning



Pictograms or Hazard Symbols

Hazard statement(s)

Signal word

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

H373 May cause damage to organs (Liver, Blood) through prolonged or repeated exposure

if swallowed.

Precautionary statement(s)

P261 Avoid breathing vapours.

P281 Use personal protective equipment as required.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Risk Phrases

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

R40 Limited evidence of a carcinogenic effect.
R67 Vapours may cause drowsiness and dizziness.

Safety Phrases

S23 Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

S36/37 Wear suitable protective clothing and gloves.

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.

Chemistry beyond chemicals



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, Phosgene

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautionsUse 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 controlsEnsure 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 protectionUse 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 Sweet

Odour Threshold 24.9 - 611.7 ppm

pH at 20 °C neutral

Melting/freezing point -95.0 °C Boiling point/range 40 °C at 1,013 hPa

Flash point no data available
Evapouration rate 40 °C at 1,013 hPa
no data available
no data available

Vapour pressure 475 hPa at 20 °C

Vapour density 2.93

Relative density no data available Water solubility 20 g/l at 20 °C

LogPow 1.25

Auto-ignition temperature no data available

Decomposition temperature > 120 °C

Viscosity0.43 mPa.s at 20 °CExplosive propertiesno data availableOxidizing propertiesno data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available Stability Sensitivity to light

Stabilizer, 2-methyl-2-butene

Hydrogen chloride gas, Phosgene

Incompatibilities rubber, various plastics, Light metals, Metals, Mild steel

Hazardous decomposition

products

Conditions to avoid no data available

Chemistry beyond chemicals



Skin corrosion/irritation Rabbit Result: Irritations Serious eye damage/irritation Rabbit Result: Eye Irritations

Local lymph node assay (LLNA) Mouse Result: negative Respiratory/skin sensitization

Germ cell mutagenicity Genotoxicity in vitro Mutagenicity (mammal cell test): chromosome aberration.

Result: positive Carcinogenicity no data available Reproductive toxicity no data available

Specific target organ toxicity Single exposure: May cause respiratory irritation. May cause drowsiness or dizziness.

Repeated exposure: no data available

Specific target organ toxicity

Aspiration hazard no data available **RTECS** Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish flow-through test LC50 Pimephales promelas (fathead minnow): 193 mg/l; 96 h

Toxicity to daphnia and static test EC50 Daphnia magna (Water flea): 27 mg/l; 48 h

other aquatic invertebrates

Persistence/degradation Biodegradability 68 %; 28 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

Proper shipping name Dichloro Methane

Hazard class 6 1 **Packaging group** Ш

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.

Chemistry beyond chemicals



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

Chemical name Methanol for Pesticide Residue Trace Analysis

 Cat No.
 PR0091

 CAS-No.
 67-56-1

 M.W.
 32.04

 EC-No.
 200-659-6

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) Methyl Alcohol
CAS No. 67-56-1
Percent >99.9%
Substance/Mixture Substance
Synonym Carbinol
Chemical Formula CH₃OH

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids (Category 2)
Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 3)
Acute toxicity, Dermal (Category 3)
Specific target organ toxicity - single exposure (Category 1)

GHS LABEL ELEMENTS







Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin

H331 Toxic if inhaled.

H370 Causes damage to organs.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and otherignition sources.

No smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P311 Call a POISON CENTER or doctor/ physician.

Risk Phrases

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in

contact with skin and if swallowed.

Safety Phrases

S7 Keep container tightly closed. S16 Keep away from sources of ignition.

S36/37 Wear suitable protective clothing and gloves.

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.

Chemistry beyond chemicals



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 Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautionsUse 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.

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 characteristic

Odour Threshold 10 -20000 ppm pH no data available

Melting/freezing point -98 °C

Boiling point/range 64.5 °C at 1,013 hPa

Flash point 10 °C

Evapouration rate no data available

Vapour pressure 128 hPa at 20.0 °C

Vapour density 1.11

Relative density 0.790-0.792g **Water solubility** at 20 °C soluble

LogPow -0.77 **Auto-ignition temperature** 455.0 °C

Decomposition temperatureno data availableViscosity0.597 mPa.s at 20 °CExplosive propertiesno data availableOxidizing propertiesno data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity Vapours may form explosive mixture with air.

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

Incompatibilities various plastics, magnesium, zinc alloys

Hazardous decomposition

products

no data available

Conditions to avoid Warming

Chemistry beyond chemicals



Skin corrosion/irritation Rabbit Result: No Skin irritation Rabbit Result: No eye irritation

Respiratory/skin sensitization Sensitisation test: Guinea pig Result: negative

Germ cell mutagenicity Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative

Carcinogenicityno data availableReproductive toxicityno data available

Specific target organ toxicity Single exposure: Causes damage to organs. **Specific target organ toxicity** Repeated exposure: no data available

Aspiration hazard no data available RTECS PC1400000

RTECS PC1400000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 Lepomis macrochirus (Bluegill sunfish): 15,400 mg/l; 96 h

Toxicity to daphnia and EC50 Daphnia magna (Water flea): > 10,000 mg/l; 48 h

other aquatic invertebrates

Persistence/degradation Biodegradability 99 %; 30 d Readily biodegradable

Environmental Avoid release to the environment.

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 1230
Proper shipping name Methanol
Hazard class 3(6.1)
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.

Chemistry beyond chemicals



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

Chemical name n-Heptane for Pesticide Residue Trace Analysis

 Cat No.
 PR0073

 CAS-No.
 142-82-5

 M.W.
 100.21

 EC-No.
 205-563-8

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 142-82-5
Percent >99.0%
Substance/Mixture Substance

Synonym

Chemical Formula CH₃(CH₂)₅.CH₃

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids (Category 2)
Skin irritation (Category 2)
Specific target organ toxicity - single exposure
Aspiration hazard (Category 1)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)

GHS LABEL ELEMENTS









Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P501 Dispose of contents/ container to an approved waste disposal plant.

Risk Phrases

R11 Highly flammable.
R38 Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness.

Safety Phrases

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition.

S29 Do not empty into drains.

S33 Take precautionary measures against static discharges.

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions / safety data sheets.

Chemistry beyond chemicals



If swallowed, do not induce vomiting; seek medical advice immediately and show

this container or label.

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 Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautionsUse 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.

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 Characteristic
Odour Threshold no data available
pH no data available

Melting/freezing point -90.5 °C

Boiling point/range 97 -98 °C at 1,013 hPa

Flash point -4.0 °C

Evapouration rate no data available

Vapour pressure 48 hPa at 20 °C

Vapour density 3.46

Relative density 0.682-0.684g Water solubility 0.05 g/l at 20 °C

LogPow 4.66

Auto-ignition temperature
Decomposition temperature
Viscosity
Decomposition temperature
No data available
O.42 mPa.s at 20 °C
No data available
Oxidizing properties
No data available

SECTION 10: STABILITY AND REACTIVITY

Chemistry beyond chemicals



Reactivity Vapours may form explosive mixture with air.

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

Incompatibilities rubber, various plastics Hazardous decomposition no data available

products

Conditions to avoid Warming.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Rabbit Result: No eye irritation

Respiratory/skin sensitization no data available

Germ cell mutagenicity Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative

Carcinogenicity no data available Reproductive toxicity no data available

Specific target organ toxicity Single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard May be fatal if swallowed and enters airways.

RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 Carassius auratus (goldfish): 4 mg/l; 24 h

Toxicity to daphnia and no data available

other aquatic invertebrates

Persistence/degradation Biodegradability 70 %; 10 d; aerobic (ECHA) 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 1206
Proper shipping name n-Heptane
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.

Chemistry beyond chemicals



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

Chemical name 1-Butane Sulphonic Acid Sodium Salt Anhydrous

 Cat No.
 012400

 CAS-No.
 2386-54-1

 M.W.
 160.17

 EC-No.
 219-201-1

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 2386-54-1
Percent 99.0%
Substance/Mixture Substance

Synonym Sodium 1-butanesulfonate

Chemical Formula C₄H₉NaO₃S

SECTION 3: HAZARDS IDENTIFICATION

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

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Sulphur oxides

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

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 controlsEnsure 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.

Chemistry beyond chemicals



Respiratory protectionUse half or full-face respirator with multi-purpose combination. If the respirator is the sole

means of protection, use a full-face supplied air respirator. Use respirators and components

tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance A White Colour

Odour No strong odour known.
Odour Threshold no data available

pH no data available

Melting/freezing point > 310 °C

Boiling point/range no data available Flash point no data available Evapouration rate no data available

Vapour pressure no data available

Vapour density
Relative density
Mater solubility
Auto-ignition temperature
Decomposition temperature
Viscosity

no data available

Explosive propertiesNot classified as explosive

Oxidizing properties none

SECTION 10: STABILITY AND REACTIVITY

ReactivityThe following applies in general to flammable organic substances and mixtures: in

correspondingly fine distribution, when whirled up a dust explosion potential may generally

be assumed.

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

Incompatibilities no data available Hazardous decomposition Sulphur oxides

products

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory/skin sensitization
Germ cell mutagenicity

No data available
No data available
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
Specific target organ toxicity
Single exposure: No data available
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

Chemistry beyond chemicals



UN number

Proper shipping name Not Dangerous good

Hazard class -Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Ion Pairing Reagents



CODE	PRODUCT NAME	CAS NO.
012400	1-Butane Sulphonic Acid Sodium Salt Anhydrous AR	2386-54-1
034083	1-Decane Sulphonic Acid Sodium Salt Monohydrate AR	13419-61-9
HP0115	1-Dodecane Sulphonic Acid Sodium Salt 98% AR for HPLC	2386-53-0
HP9178	1-Heptane Sulphonic Acid Sodium Salt Anhydrous AR for HPLC	22767-50-6
HP0177	1-Heptane Sulphonic Acid Sodium Salt Monohydrate (for HPLC) AR	207300-90-1
034505	1-Hexane Sulphonic Acid Sodium Salt Anhydrous AR for HPLC	2832-45-3
HP0180	1-Hexane Sulphonic Acid Sodium Salt Monohydrate (for HPLC) AR	207300-91-2
HP0213	1-Nonane Sulphonic Acid Sodium Salt 99% ARfor HPLC	35192-74-6
HP0216	1-Octane Sulphonic Acid Sodium Salt Anhydrous 99% for HPLC	5324-84-5
013401	1-Octane Sulphonic Acid Sodium Salt Monohydrate (for HPLC) AR	207596-29-0
013510	1-Pentane Sulphonic Acid Sodium Salt Monohydrate AR	207605-40-1

HP0222	1-Pentane Sulphonic Acid Sodium SaltAnhydrous 99% for HPLC	22767-49-3
030835	Cetrimide	1119-97-7
012565	N-Cetyl-N, N, N-Trimethyl Ammonium Bromide AR	57-09-0
HP0265	Sodium Lauryl Sulphate (for HPLC) AR	151-21-3
037032	Tetrabutyl Ammonium Bromide	1643-19-2
037034	Tetrabutyl Ammonium Hydrogen Sulphate	32503-27-8
014009	Tetrabutyl Ammonium Iodide AR	311-28-4
037039	Tetraethyl Ammonium Bromide for Synthesis	71-91-0

Chemistry beyond chemicals



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

Chemical name 1-Decane Sulfonic Acid Sodium Salt Monohydrate

Cat No. 034083 CAS-No. 13419-61-9 M.W. 262.33 EC-No. 236-525-9

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 13419-61-9
Percent 99.0 %
Substance/Mixture Substance

Synonym Sodium decane-1-sulfonate

Chemical Formula $C_{10}H_{21}NaO_3S.H_2O$

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

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

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

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

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards No data available

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Chemistry beyond chemicals



vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for 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 protectionUse half or full-face respirator with multi-purpose combination. If the respirator is the sole

means of protection, use a full-face supplied air respirator. Use respirators and components

tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance A white crystalline powder

Odour no data available
Odour Threshold no data available
pH no data available

Melting/freezing point 300 °C

Boiling point/range no data available
Flash point no data available
Evapouration rate no data available
Vapour pressure no data available
Vapour density no data available
Relative density no data available

Water solubility Soluble

Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidizing properties
No data available
no data available
no data available
no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability Stable under recommended storage conditions

Incompatibilities Strong oxidizing agents
Hazardous decomposition No data available

products

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory/skin sensitization
Germ cell mutagenicity

No data available
No data available
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.

Chemistry beyond chemicals



Reproductive toxicity

Specific target organ toxicity Specific target organ toxicity

Aspiration hazard RTECS

Repeated exposure: No data available

No data available No data available

No data available

Single exposure: No data available

SECTION 12: ECOLOGICAL INFORMATION

EcotoxicityNo data availablePersistence/degradationNo data availableEnvironmentalNo data available

SECTION 13: DISPOSAL CONSIDERATIONS

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

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

SECTION 14: TRANSPORT INFORMATION

UN number

Proper shipping name Not Dangerous good

Hazard class -Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



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

Chemical name 1-Heptane Sulphonic Acid Sodium Salt Anhydrous AR for HPLC

Cat No.HP9178CAS-No.22767-50-6M.W.202.24EC-No.245-210-5

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) 1-Hexane sulfonic acid sodium salt anhydrous

CAS No. 22767-50-6
Percent 99.0%
Substance/Mixture Substance

Synonym Sodium 1-heptanesulfonate

Chemical Formula C₇H₁₅NaO₃S

SECTION 3: HAZARDS IDENTIFICATION

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

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides, Sulphur oxides.

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 protectionUse 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

Chemistry beyond chemicals



Appearance white crystalline powder

Odour no data available
Odour Threshold no data available
pH no data available

Melting/freezing point 300°C

Boiling point/range no data available Flash point no data available **Evapouration rate** no data available Vapour pressure no data available Vapour density no data available Relative density no data available no data available Water solubility LogPow no data available **Auto-ignition temperature** no data available **Decomposition temperature** no data available no data available **Viscosity 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 Carbon oxides, Sulphur oxides

products

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
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
Specific target organ toxicity
Single exposure: no data available
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 no data available

other aquatic invertebrates

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.

Chemistry beyond chemicals



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.

Chemistry beyond chemicals



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

Chemical name 1-Heptane Sulphonic Acid Sodium Salt Monohydrate

 Cat No.
 HP0177

 CAS-No.
 207300-90-1

 M.W.
 220.27

EC-No. Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

 CAS No.
 207300-90-1

 Percent
 99.0%

 Substance/Mixture
 Substance

Synonym Sodium 1-heptanesulfonic monohydrate

Chemical Formula C₇H₁₅NaO₃S.H₂O

SECTION 3: HAZARDS IDENTIFICATION





GHS Elements

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

Safety Phrase S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

S37/39: Wear suitable gloves and eye/face protection.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Nature of decomposition products not known.

Advice for firefighters Wear personal protective equipment for firefighting if necessary.

Further information Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

Chemistry beyond chemicals



Hand protection Skin and Body Protection Respiratory protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Impervious protective clothing and boots, if required.

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

tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Crystalline
Odour no data available
Odour Threshold no data available

pH 5-6 Melting/freezing point 5-6

Boiling point/range no data available no data available Flash point **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 Brass, Iron and iron salts, Powdered metals, Copper, Iron, Zinc, Nickel

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
Respiratory/skin sensitization
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 no data available

other aquatic invertebrates

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

Chemistry beyond chemicals



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.

Chemistry beyond chemicals



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

Chemical name 1-Hexane sulfonic acid sodium salt anhydrous AR for HPLC

Cat No.034505CAS-No.2832-45-3M.W.188.22EC-No.220-601-3

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) 1-Hexane sulfonic acid sodium salt anhydrous

CAS No. 2832-45-3
Percent 99.0%
Substance/Mixture Substance

Synonym Sodium 1-hexane sulphonate

Chemical Formula C₆H₁₃NaO₃S

SECTION 3: HAZARDS IDENTIFICATION

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

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides, Sulphur oxides.

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 protectionUse 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

Chemistry beyond chemicals



Appearance white crystalline powder

Odour no data available
Odour Threshold no data available
pH no data available

Melting/freezing point 300°C

Boiling point/range no data available Flash point no data available **Evapouration rate** no data available Vapour pressure no data available Vapour density no data available Relative density no data available no data available Water solubility LogPow no data available **Auto-ignition temperature** no data available **Decomposition temperature** no data available no data available **Viscosity 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 Carbon oxides, Sulphur oxides

products

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
Germ cell mutagenicity no data available

Carcinogenicity ARC: 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
Specific target organ toxicity
Single exposure: no data available
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 no data available

other aquatic invertebrates

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.

Chemistry beyond chemicals



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.

Chemistry beyond chemicals



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

Chemical name 1-Hexane Sulphonic acid Sodium Salt Monohydrate AR for HPLC

Cat No.HP0180CAS-No.207300-91-2M.W.206.24EC-No.220-601-3

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 207300-91-2
Percent 99.0%
Substance/Mixture Substance

Synonym

Chemical Formula CH_{3.}(CH₂)₅SO₃Na.H₂O

SECTION 3: HAZARDS IDENTIFICATION

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Nature of decomposition products not known.

Advice for firefighters Wear personal protective equipment for firefighting if necessary.

Further information Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for 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.

means of protection, use a full-face supplied air respirator. Use respirators and components

tested and approved under appropriate government standards.

CTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid, White

Chemistry beyond chemicals



Odour no data available
Odour Threshold no data available
pH no data available

Melting/freezing point 300°C

Boiling point/range no data available Flash point no data available **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 no data available LogPow **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 Brass, Iron and iron salts, Powdered metals, Copper, Iron, Zinc, Nickel

Hazardous decomposition no data available

products

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

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

Specific target organ toxicity
Specific target organ toxicity
Single exposure: no data available
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 no data available

other aquatic invertebrates

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

Chemistry beyond chemicals



Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



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

Chemical name 1-Octane Sulphonic Acid Sodium Salt Anhydrous for HPLC

Cat No.HP0216CAS-No.5324-84-5M.W.216.28EC-No.226-195-4

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 5324-84-5
Percent 99.0%
Substance/Mixture Substance

Synonym Sodium 1-octanesulfonate

Chemical Formula C₈H₁₇O₃SNa

SECTION 3: HAZARDS IDENTIFICATION

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

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides, Sulphur oxides.

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 protectionUse 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

Chemistry beyond chemicals



Appearance white crystalline powder

Odour no data available
Odour Threshold no data available
pH no data available

Melting/freezing point 300°C

Boiling point/range no data available Flash point no data available **Evapouration rate** no data available Vapour pressure no data available Vapour density no data available Relative density no data available no data available Water solubility LogPow no data available **Auto-ignition temperature** no data available **Decomposition temperature** no data available no data available **Viscosity 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 Carbon oxides, Sulphur oxides

products

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
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
Specific target organ toxicity
Single exposure: no data available
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 no data available

other aquatic invertebrates

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.

Chemistry beyond chemicals



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.

Chemistry beyond chemicals



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

Chemical name 1-Pentane Sulphonic Acid Sodium Salt Anhydrous for HPLC

Cat No.HP0222CAS-No.22767-49-3M.W.174.19EC-No.245-210-5

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) 1-Pentane Sulphonic Acid Sodium Salt Anhydrous

CAS No. 22767-49-3
Percent 99.0%
Substance/Mixture Substance

Synonym Sodium 1-pentanesulfonate

Chemical Formula $C_5H_{11}O_3SNa$

SECTION 3: HAZARDS IDENTIFICATION

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

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides, Sulphur oxides.

Advice for firefighters Wear personal protective equipmentfor fire fighting if necessary.

Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

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 insuitable

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.

Chemistry beyond chemicals



Hand protection Skin and Body Protection Respiratory protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Impervious protective clothing and boots, if required.

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

tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance White crystalline powder.

Odour odourless

Odour Threshold no data available

pH 5.5 - 7.5 Melting/freezing point 300°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
Decomposition temperature
Viscosity no data available
Explosive properties no data available
Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stable under recommended storage conditions.

Incompatibilities Strong oxidizing agents.

Hazardous decomposition Carbon oxides, Sulphur oxides

products

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

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

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity no data available

Specific target organ toxicity Single exposure: no data available Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard no data available

RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish no data available Toxicity to daphnia and no data available

other aquatic invertebrates

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.

Chemistry beyond chemicals



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

SECTION 14: TRANSPORT INFORMATION

UN number -

Proper shipping name Not Dangerous goods.

Hazard class - Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance/mixture:no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



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

 Chemical name
 Cetrimide

 Cat No.
 030835

 CAS-No.
 1119-97-7

 M.W.
 336.41

 EC-No.
 214-291-9

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

 CAS No.
 1119-97-7

 Percent
 96.0-101.0%

 Substance/Mixture
 Substance

Synonym tetradecyltrimethyl ammonium bromide; Myristyltrimethylammonium bromide

Chemical Formula C₁₇H₃₈BrN

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin corrosion Category 1B

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician.

Risk Phrases

R34 Causes burns.

Safety Phrases

In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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 dioxide.

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information no data available

Chemistry beyond chemicals



SECTION 6: ACCIDENTAL RELEASE MEASURES

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 controlsEnsure 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 protectionUse half or full-face respirator with multi-purpose combination. If the respirator is the sole

means of protection, use a full-face supplied air respirator. Use respirators and components

tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance powder

Odour No strong odour known.

Odour Threshold no data available pH no data available

Melting/freezing point245-250 °CBoiling point/rangeno data availableFlash pointno data availableEvapouration rateno data availableVapour pressureno data availableVapour densityno data availableRelative densityno 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 no data available

products

Conditions to avoid Warming.

Chemistry beyond chemicals

Lab Reagents

ISO 9001:2008 CERTIFIED

Skin corrosion/irritation Causes skin burns.

Serious eye damage/irritation Causes serious eye damage.

Respiratory/skin sensitization no data available Germ cell mutagenicity no data available

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity no data available

Specific target organ toxicity Single exposure : no data available **Specific target organ toxicity** Repeated exposure: no data available

Aspiration hazard no data available RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish no data available Toxicity to daphnia and no data available

other aquatic invertebrates **Persistence/degradation**

no data available

Environmental Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

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

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

SECTION 14: TRANSPORT INFORMATION

UN number 1759

Proper shipping name CORROSIVE SOLID, N.O.S. (TETRADECYLTRIMETHYLAMMONIUMBROMIDE)

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.

Chemistry beyond chemicals



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

Chemical name N-Cetyl-N,N,N-Trimethyl Ammonium Bromide

 Cat No.
 012565

 CAS-No.
 57-09-0

 M.W.
 364.45

 EC-No.
 200-311-3

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 57-09-0
Percent 99.0%
Substance/Mixture Substance

Synonym Hexadecyltrimethylammonium bromide; Cetrimonium bromide; CTABr

Chemical Formula C₁₉H₄₂BrN

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity

Skin irritation

Serious eye damage

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Acute aquatic toxicity

Chronic aquatic toxicity

Category 1

Category 1

Category 1

Category 1

GHS LABEL ELEMENTS









Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

H373 May cause damage to organs (Gastrointestinal tract) through prolonged or repeated

exposure if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear eye protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/ attention if you feel unwell.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

Chemistry beyond chemicals



SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards hydrogen bromide, nitrogen oxides

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautionsUse 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 controlsEnsure 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 protectionUse half or full-face respirator with multi-purpose combination. If the respirator is the sole

means of protection, use a full-face supplied air respirator. Use respirators and components

tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance A White powder.

Odour Weak

Odour Threshold no data available pH 5 - 7 at 50 g/l 20 °C

Melting/freezing point

Boiling point/range
Flash point

Evapouration rate

237 - 243 °C

no data available

no data available

no data available

Vapour pressure no data available

Vapour densityno data availableRelative densityno data availableWater solubility55 g/l at 20 °C

LogPow 2.26

Auto-ignition temperature no data available

Decomposition temperature > 230 °C

Viscosity no data available

Explosive properties Not classified as explosive.

Oxidizing properties none

SECTION 10: STABILITY AND REACTIVITY

Reactivity The following applies in general to flammable organic substances and mixtures: in

correspondingly fine distribution, when whirled up a dust explosion potential may generally

be assumed.

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

Incompatibilities Strong oxidizing agents

Hazardous decomposition hydrogen bromide, nitrogen oxides

Chemistry beyond chemicals



products

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity Acute oral toxicity: LD50 Rat: 410 mg/kg

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/irritation
Causes serious eye Irritations

Respiratory/skin sensitization Result: Based on available data the classification criteria are not met.

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
Repeated exposure: Target Organs: Gastrointestinal tract May cause damage to organs

through prolonged or repeated exposure.

Exposure routes: Ingestion Target Organs: Gastrointestinal tract

Aspiration hazard no data available

RTECS BQ7875000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish: semi-static test LC50 Danio rerio (zebra fish): 0.2 mg/l; 96 h

Toxicity to daphnia and

other aquatic invertebrates Immobilization EC50 Daphnia magna (Water flea): 0.037 mg/l; 48 h

Toxicity to algae Growth rate NOEC Desmodesmus subspicatus (green algae): 0.001 mg/l; 72 h

Toxicity to bacteria EC50 Photobacterium phosphoreum: 9.8 mg/l; 5 min

Persistence/degradation Biodegradability 100 %; 11 d; aerobic Chemical oxygen demand

Readily biodegradable > 95 %; 48 h

Environmental Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

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

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

SECTION 14: TRANSPORT INFORMATION

UN number 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(HEXADECYLTRIMETHYLAMMONIUMBROMIDE)

Hazard class 9
Packaging group III

SECTION 15: REGULATORY INFORMATION

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

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

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



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

Chemical name Sodium Lauryl Sulphate for HPLC

Cat No.HP0265CAS-No.151-21-3M.W.288.38

EC-No. Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 151-21-3
Percent 99.0%
Substance/Mixture Mixture
Synonym Chemical Formula -

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Substances, which in contact with water, emit flammable gases

Category 1
Corrosive to metals

Skin corrosion

Acute toxicity, Oral

Category 3

GHS LABEL ELEMENTS







PICTOGRAMS OR HAZARD SYMBOL

Signal word Danger

Hazard Statements
H228 Flammable solid
H302 Haarmful if swallowed
H311 Toxic in contact with skin

H315 Causes skin irritation
H318 Causes serious eye damage
H335 May Cause respiratory irritation.

Precautionary Statements

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

P261 Avoid breathing dust/fumes/mist/gas/vapours/spray.

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. P312 Call a POISON CENTER or doctor/physician if u feel unwell.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Chemistry beyond chemicals



Special hazards No data available

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

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 no data available
Odour Threshold no data available

pH 6.5-7.5

Melting/freezing point no data available Boiling point/range no data available no data available Flash point **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 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 No data available

products

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Chemistry beyond chemicals



Acute toxicity
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory/skin sensitization
Germ cell mutagenicity
Carcinogenicity

No data available
No data available
No data available
No data available

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
Specific target organ toxicity
Specific target organ toxicity
Repeated exposure: No data available

Aspiration hazard No data available RTECS No data available

SECTION 12: ECOLOGICAL INFORMATION

EcotoxicityNo data availablePersistence/degradationNo data availableEnvironmentalNo 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 2926

Proper shipping name Sodium dodecylsulphate

Hazard class 4.1(6.1)
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.

Chemistry beyond chemicals



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

Chemical name Tetrabutyl Ammonium Bromide for Synthesis

 Cat No.
 037032

 CAS-No.
 1643-19-2

 M.W.
 322.37

 EC-No.
 216-699-2

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 1643-19-2
Percent 99.0%
Substance/Mixture Substance
Synonym TRAB
Chemical Formula C₁₆H₃₆BrN
SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral Category 4
Eye irritation Category 2

Long-term (chronic) aquatic hazard Category 3

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Hydrogen bromide, nitrogen oxides

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

Chemistry beyond chemicals



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.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and **Engineering controls**

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.

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

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means Respiratory protection

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

A white to almost white crystalline compound. **Appearance**

Odour weakly amine-like

Odour Threshold no data available

no data available Melting/freezing point 100 - 103 °C Boiling point/range no data available Flash point no data available **Evapouration rate** no data available no data available Vapour pressure Vapour density no data available Relative density 1.15 g/cm3 Water solubility 600 g/l at 20 °C

LogPow 1.71

Auto-ignition temperature no data available **Decomposition temperature** no data available **Viscosity** no data available

Explosive properties Not classified as explosive.

Oxidizing properties none

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability The product is chemically stable under standard ambient conditions.

Incompatibilities Strong oxidizing agents

Hazardous decomposition Hydrogen bromide, nitrogen oxides

products

Conditions to avoid Exposure to moisture SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity Acute oral toxicity LD50 Rat: > 300 - 2,000 mg/kg

Acute dermal toxicity LD50 Rat: > 2,000 mg/kg

Rabbit Result: slight irritation Skin corrosion/irritation Serious eye damage/irritation Rabbit Result: Eye irritation

Respiratory/skin sensitization Buehler Test Guinea pig Result: negative

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

Chemistry beyond chemicals



RTECS no data available
SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish Toxicity to fish static test LC50 Danio rerio (zebra fish): > 100 mg/l; 96 h

Toxicity to daphnia and

other aquatic invertebrates semi-static test EC50 Daphnia magna (Water flea): 50 mg/l; 48 h

Toxicity to algae static test ErC50 Chlorella vulgaris (Fresh water algae): 204.7 mg/l; 72 h

Toxicity to bacteria EC50 Vibrio fischeri: 1.862 mg/l; 0.25 h

Persistence/degradation Biodegradability 0 %; 28 d; aerobic Not readily biodegradable.

Environmental Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

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

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

SECTION 14: TRANSPORT INFORMATION

UN number

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.

Chemistry beyond chemicals



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

Chemical name Tetrabutyl Ammonium Hydrogen Sulphate for Synthesis

Cat No.037034CAS-No.32053-27-8M.W.339.54EC-No.251-068-5

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 32053-27-8
Percent 98.0%
Substance/Mixture Substance
Synonym TBAHS

Chemical Formula (CH₃(CH₂)₃)₄ NHSO₄

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin irritation (Category 2) Eye irritation (Category 2)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

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

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides, 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.

Chemistry beyond chemicals



Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up regulations.

Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected

material shall be placed in a container for disposal according to appropriate laws and

SECTION 7: HANDLING AND STORAGE

Handling No smoking. Keep away from sources of ignition. Avoid contact with skin and eyes.

Wash hands and face thoroughly after handling. Avoid inhalation of vapour or mist.

Wear suitable protective equipment.

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

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.

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

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

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means Respiratory protection

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

Form: solid Colour: white **Appearance**

Odour no data available

Odour Threshold no data available

1-2 at 100g/l 20°C . Melting/freezing point 169-172°C Boiling point/range no data available Flash point no data available no data available **Evapouration rate** no data available no data available

Vapour pressure Vapour density Relative density no data available Water solubility at 20 °C Soluble no data available LogPow **Auto-ignition temperature** no data available **Decomposition temperature** no data available

no data available Viscosity **Explosive properties** Not classified as explosive.

Oxidizing properties

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

The product is chemically stable under standard ambient conditions. Stability

Incompatibilities Strong oxidizing agents **Hazardous decomposition** no data available

products

Conditions to avoid Exposure to moisture 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

Single exposure: no data available. Specific target organ toxicity Specific target organ toxicity Repeated exposure: no data available

Chemistry beyond chemicals



Aspiration hazard no data available no data available **RTECS**

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 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.

Chemistry beyond chemicals



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

Chemical name Tetrabutyl Ammonium Iodide AR

 Cat No.
 014009

 CAS-No.
 311-28-4

 M.W.
 369.38

EC-No. Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 311-28-4
Percent 99.0%
Substance/Mixture Substance

Synonym N,N,N-Tributyl-1-butanaminiuiodide

Chemical Formula C₁₆H₃₆IN

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Eye irritation Category 2
Skin irritation Category 2

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: 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 no data available

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information no data available

Chemistry beyond chemicals



SECTION 6: ACCIDENTAL RELEASE MEASURES

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

vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for containment and cleaning upAbsorb/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 protectionUse 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 off white crystalline compound

Odour Amine like **Odour Threshold** no data available no data available pΗ Melting/freezing point 143-146 °C Boiling point/range no data available Flash point no data available **Evapouration rate** no data available no data available Vapour pressure Vapour density no data available Relative density no data available Water solubility soluble in hot water LogPow no data available Auto-ignition temperature no data available Decomposition temperature no data available Viscosity no data available **Explosive properties** no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability Stable under recommended storage conditions

no data available

Incompatibilities No data available Hazardous decomposition No data available

products

Oxidizing properties

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity No data available

Chemistry beyond chemicals



Skin corrosion/irritation
Serious eye damage/irritation
Respiratory/skin sensitization
Germ cell mutagenicity

No data available
No data available
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

EcotoxicityNo data availablePersistence/degradationNo data availableEnvironmentalNo data available

SECTION 13: DISPOSAL CONSIDERATIONS

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

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

SECTION 14: TRANSPORT INFORMATION

UN number -

Proper shipping name Not Dangerous good

Hazard class - Packaging group -

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



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

Chemical name Tetraethyl Ammonium Bromide for synthesis

 Cat No.
 037039

 CAS-No.
 71-91-0

 M.W.
 210.16

 EC-No.
 200-769-4

Company Email

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 71-91-0
Percent 98.0%
Substance/Mixture Substance
Synonym TEA bromide
Chemical Formula C₈H₂₀NBr
SECTION 3: HAZARDS IDENTIFICATION

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

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do Not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards hydrogen bromide, nitrogen oxides

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

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 Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected

containment and cleaning up 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.

Chemistry beyond chemicals



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

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means Respiratory protection

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

White to pale yellow crystals/crystalline powder. **Appearance**

odourless Odour

Odour Threshold Not applicable 6.5 at 100 g/l 20 °C

Melting/freezing point 285 °C

no data available Boiling point/range Flash point no data available **Evapouration rate** no data available Vapour pressure no data available no data available Vapour density Relative density 1.397 g/cm3 at 20 °C Water solubility 2,795 g/l at 25 °C LogPow no data available no data available **Auto-ignition temperature**

Decomposition temperature > 285 °C

Viscosity no data available

Explosive properties Not classified as explosive.

Oxidizing properties none

SECTION 10: STABILITY AND REACTIVITY

Reactivity The following applies in general to flammable organic substances and mixtures: in

correspondingly fine distribution, when whirled up a dust explosion potential may generally

be assumed.

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

Strong oxidizing agents Incompatibilities

Hazardous decomposition

products Conditions to avoid Hydrogen bromide, nitrogen oxides

Temperatures above melting point. SECTION 11: TOXICOLOGICAL INFORMATION

no data available **Acute toxicity** Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory/skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available

Specific target organ toxicity Single exposure: no data available Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard no data available **RTECS** no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 Leuciscus idus (Golden orfe): > 100 mg/l

Persistence/degradation no data available

Discharge into the environment must be avoided **Environmental**

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.

По вопросам продаж и поддержки обращайтесь:

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