

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

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SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : 3-Mercaptopropionic acid

Product Number : M103035
Brand : aladdin
CAS-No. : 107-96-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION

Address : 14078 Meridian Parkway,

Riverside, CA. 92518

Telephone : +1 (833) 552-7181 Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300

CHEMTREC®, Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Metal corrosion (Category 1), H290

Acute toxicity, oral (Category 3), H301

Acute toxicity, inhalation (Category 4), H332

Skin corrosion/irritation (Category 1B), H314

Serious eye injury/eye irritation (Category 1), H318

Acute (short-term) aquatic hazard (Category 2), H401

2.2 GHS Label elements, including precautionary statements



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Pictogram





Signal word Danger

Hazard statement(s)

H290 May be corrosive to metals

H301 Toxic if swallowed

H314 Causes severe skin burns and eye damage

H332 Harmful if inhaled
H401 Toxic to aquatic life

Precautionary statement(s)

P234 Keep only in original container.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN

with water [or shower].

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

lenses if present and easy to do - continue rinsing.

P405 Store locked up.

P406 Store in corrosive resistant/... container with a resistant inner liner.

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

P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing.Call

a POISON CENTER or doctor. if you feel unwell.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : 3-sulfanylpropanoic acid; 3-Thiopropionic acid; β-Mercaptopropionic acid

Formula : C3H602S Molecular weight : 106.14 CAS No. : 107-96-0



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EC-NO. : 203-537-0

Component	Classification	Concentration
3-Mercaptopropionic acid		
	no data available	98%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxide Sulfur oxide Flammable Vapor is heavier than air, so it can spread across the ground. It forms explosive mixture with air under rapid heating Hazardous gases or vapors may be generated in case of fire

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

7.2 Conditions for safe storage, including any incompatibilities

Argon-filled storage in a cool and ventilated warehouse.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection



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8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. 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 such as NIOSH (US) or CEN(EU).

Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance form: Liquid or Solid color: Colorless or White

b) Odour no data available c) Odour Threshold no data available d) pH no data available

e) Melting point/freezing point 15-18°C f) Initial boiling point and boiling range 110-111°C g) Flash point 93.4°C

h) Evaporation rate no data available i) Flammability (solid, gas) no data available

j) Upper/lower flammability or

explosive limits no data available



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k) Vapour pressure no data available I) Vapour density no data available m) Relative density no data available n) Water solubility no data available o) Partition coefficient: n-octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available no data available r) Viscosity s) Explosive properties N no data available t) Oxidizing properties N no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Strong heating

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 oral - rat - 96 mg/kg

Remarks: (RTECS)

LC50 inhalation - rats - male and female - 4 h - 1.81 mg/l



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(OECD Test Guideline 403)

Transcutaneous: no data

Skin corrosion/irritation

Skin - Rabbit Result: After exposure for 3 minutes to 1 hour, corrosion effects will occur - 7 hours Remarks: (ECHA) Serious eye damage/eye irritation

Eyes - Rabbit Result: irreversible effect on eyes - 30 S (OECD Test Guideline 405) Remarks: causing serious eye damage

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

Test type: in vitro chromosome aberration test Test system: human lymphocytes Metabolic activation: with or without metabolic activation Method: OECD Test Guideline 473 Result: Negative Test type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with or without metabolic activation Method: OECD Test Guideline 471 Result: Negative Test type: mammalian cell gene mutation test in vitro Test system: mouse lymphoma cells Metabolic activation: with or without metabolic activation Method: OECD Test Guideline 476 Result: Negative

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

Toxic effect registration of chemical substances: UF5270000

Cough, shortness of breath, headache, nausea, vomiting

The following data are applicable to general mercaptans: pungent odor

Other hazards cannot be excluded.

Operate in accordance with good industrial hygiene and safety regulations.

SECTION 12: Ecological information

12.1 Toxicity

Semi-static toxicity test for fish LC50 - Danio rerio (zebrafish) - 98 mg/l - 96 h

(OECD Test Guideline 203)

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No ridge to Daphnia and other aquatic species

Toxicity of vertebrates

Static test EC50 - Daphnia magna (Daphnia magna) - 9 mg/l - 48 h

(OECD Test Guideline 202)

Static toxicity test on algae ErC50 - Pseudokirchniella subcapita - 26 mg/l - 72 h

(OECD Test Guide 201)

Static toxicity test for bacteria EC50 - activated sludge - 393.3 mg/l - 3 h

(OECD Test Guideline 209)

12.2 Persistence and degradability

Aerobic - exposure time 28 days Results: 96% - rapidly biodegradable. (OECD Test Guide 301A)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2922 Packing group: II Class: 8

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Proper shipping name: Corrosive liquid, Reportable Quantity(RQ): no data

Poison Inhalation Hazard: no data

toxic, n.o.s. (3-mercaptopropionic acid) available

available

Environmental Hazards: no

IMDG

UN number: 2922 Packing group: II EMS-No: no data available

Proper shipping name: Corrosive liquid, toxic, n.o.s. (3-mercaptopropionic acid)

IATA

UN number: 2922 Packing group: II Class: 8

Proper shipping name: Corrosive liquid, toxic, n.o.s. (3-mercaptopropionic acid)

SECTION 15: Regulatory information

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

SECTION 16: Other information

Regulatory Affairs

Prepared By ALADDIN SCIENTIFIC CORPORATION

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