Company

Material Safety Data Sheet

Concentration

Page 1 of

Version 3.0 Revision Date 04/30/2009 Print Date 05/25/2009

Product name

1. PRODUCT AND COMPANY IDENTIFICATION

2-Mercaptoethanesulfonic acid solution

Product Number 63707 Brand Sigma

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: +1 9058299500 : +1 9058299292

: Sigma-Aldrich Canada, Ltd.

Fax Emergency Phone # : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS Formula

: C₂H₆O₃S₂ CAS-No. EC-No.

Water 7732-18-5 231-791-2 >= 60 - <= 65 %

2-Mercaptoethanesulphonic acid 3375-50-6 222-167-0 >= 35 - <= 40 %

3. HAZARDS IDENTIFICATION WHMIS Classification Ε Corrosive Material Corrosive

HMIS Classification Health Hazard:

Flammability: 0 0 Physical hazards: Potential Health Effects

3

Index-No.

May be harmful if inhaled. Material is extremely destructive to the tissue of the Inhalation Skin

mucous membranes and upper respiratory tract. May be harmful if absorbed through skin. Causes skin burns. Eyes

Causes eye burns. May be harmful if swallowed. Causes burns.

Ingestion 4. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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In case of skin contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician. In case of eye contact

no data available

Wear self contained breathing apparatus for fire fighting if necessary.

Special protective equipment for fire-fighters

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

If swallowed

transport to hospital.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during

5. FIRE-FIGHTING MEASURES

Flash point

Flammable properties

Ignition temperature no data available Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate

Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for

disposal.

Personal precautions

personnel to safe areas.

Environmental precautions Do not let product enter drains.

> рΗ no data available

Ignition temperature no data available no data available Lower explosion limit Upper explosion limit no data available

no data available

no data available

no data available

1.260 g/cm3

no data available

Melting point

Boiling point

Flash point

Density

Storage stability

Water solubility

10. STABILITY AND REACTIVITY

Stable under recommended storage conditions. Materials to avoid Strong oxidizing agents

Sensitisation 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. Signs and Symptoms of Exposure Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.,

Potential Health Effects

Inhalation

no data available Ecotoxicity effects

Product

IMDG

IATA

Skin

Chronic exposure

no data available Further information on ecology no data available

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical

Packing group: III

Packing group: III

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Corrosive

EMS-No: F-A, S-B

CAS-No.

3375-50-6

spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

May be harmful if absorbed through skin. Causes skin burns.

mucous membranes and upper respiratory tract.

May be harmful if swallowed. Causes burns.

Causes eye burns.

Elimination information (persistence and degradability)

May be harmful if inhaled. Material is extremely destructive to the tissue of the

14. TRANSPORT INFORMATION DOT (US) UN-Number: 3265 Class: 8 Packing group: III

incinerator equipped with an afterburner and scrubber.

15. REGULATORY INFORMATION Sigma - 63707

UN-Number: 3265 Class: 8

UN-Number: 3265 Class: 8

Marine pollutant: No

Further information Copyright 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a

product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

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7. HANDLING AND STORAGE Handling Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. Storage Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas. Air sensitive. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Contains no substances with occupational exposure limit values. Personal protective equipment Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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). Sigma-Aldrich Corporation Sigma - 63707 Page 2 of www.sigma-aldrich.com Hand protection Handle with gloves. Eye protection Safety glasses Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the work place. Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance clear, liquid Form colourless Colour Safety data

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides 11. TOXICOLOGICAL INFORMATION Acute toxicity no data available Irritation and corrosion no data available Sigma-Aldrich Corporation Sigma - 63707 Page 3 of www.sigma-aldrich.com

Eyes Ingestion 12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Contaminated packaging Dispose of as unused product.

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. Marine pollutant: No Poison Inhalation Hazard: No

Proper shipping name: Corrosive liquid, acidic, organic n.o.s.

Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

2-Mercaptoethanesulphonic acid

Corrosive Material

DSL Status

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WHMIS Classification

16. OTHER INFORMATION

guide. The information in this document is based on the present state of our knowledge and is applicable to the

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