



Material Safety Data Sheet

Catalog Number: 100995
Revision date: 24-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 100995

Product name: beta-MERCAPTOETHYLAMINE HYDROCHLORIDE

Synonyms: Cysteamine Hydrochloride; 2-Aminoethanethiol Hydrochloride

Supplier:

MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
beta-MERCAPTOETHYLAMINE HYDROCHLORIDE	156-57-0	90 - 100%	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Water Reactive

Category of Danger:

Water Reactive

Principle routes of exposure: Skin

Inhalation: May cause irritation of respiratory tract

Ingestion: May be harmful if swallowed.

Skin contact: May cause allergic skin reaction

Eye contact: Avoid contact with eyes

Statements of hazard Reacts violently with water.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

Ingestion: Do not induce vomiting without medical advice.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Specific hazards:

Unusual hazards:

Special protective equipment for firefighters:

Use dry chemical, CO₂, water spray or "alcohol" foam

Burning produces irritant fumes.

None known

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Water mist may be used to cool closed containers.

Specific methods:

Flash point:

Not determined

Autoignition temperature:

Not determined

NFPA rating:

NFPA Health: 1

NFPA Flammability: 0

NFPA Reactivity: 0

NFPA Special Note: w

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment.

Environmental precautions:

Prevent product from entering drains.

Methods for cleaning up:

Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

+4°C

DESICCATE

Handling:

Use only in area provided with appropriate exhaust ventilation.

Safe handling advice:

Wear personal protective equipment.

Incompatible products:

Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Powder

Formula:

C₂H₇NS•ClH

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Molecular weight:	113.6
Melting point/range:	70°C
Boiling point/range:	No Data available at this time.
Density:	No data available
Vapor pressure:	No data available
Evaporation rate:	No data available
Vapor density:	No data available
Solubility (in water):	Reacts with water
Flash point:	Not determined
Autoignition temperature:	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	None under normal processing.
Hazardous decomposition products:	Chloride/Hydrochloric acid , Nitrogen oxides (NOx)/ammonia/CN- , Sulphur oxides
Materials to avoid:	Strong oxidising agents Water
Conditions to avoid:	Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Components

beta-MERCAPTOETHYLAMINE
HYDROCHLORIDE

RTECS Number:

KJ0200000

Selected LD50s and LC50s

Oral LD50 Mouse : 1352 mg/kg

Chronic toxicity:	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation:	No data is available on the product itself.
Carcinogenic effects:	No data is available on the product itself.
Mutagenic effects:	No data is available on the product itself.
Reproductive toxicity:	No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility:	No data available
Bioaccumulation:	No data available
Ecotoxicity effects:	No data available
Aquatic toxicity:	May cause long-term adverse effects in the aquatic environment.

Components

beta-MERCAPTOETHYLAMINE
HYDROCHLORIDE

U.S. DOT - Appendix B - Marine Pollutan

Not Listed

U.S. DOT - Appendix B - Severe Marine Pollutants

Not Listed

United Kingdom - The Red List:

Not Listed

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
beta-MERCAPTOETHYLAMINE HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
beta-MERCAPTOETHYLAMINE HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
beta-MERCAPTOETHYLAMINE HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants	
beta-MERCAPTOETHYLAMINE HYDROCHLORIDE	Not Listed	Not Listed	

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging:

Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No:

Not regulated

DOT:

Proper shipping name:

Not Regulated

Components

beta-MERCAPTOETHYLAMINE HYDROCHLORIDE

U.S. DOT - Appendix A Table 1 - Reportable Quantities

Not Listed

TDG (Canada):

WHMIS hazard class:

Non-controlled

IMDG/IMO

IMDG - Hazard Classifications

Not Applicable

Components

beta-MERCAPTOETHYLAMINE HYDROCHLORIDE

U.S. DOT - Appendix B - Marine Pollutan

Not Listed

U.S. DOT - Appendix B - Severe Marine Pollutants

Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

beta-MERCAPTOETHYLAMINE HYDROCHLORIDE

Inventory - United States TSCA - Sect. 8(b)

Present

Canada DSL Inventory List -

Present

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

205-858-1; C2H7NS.CIH

Inventory - Japan:

9-1422

Korean KECL:

KE-01332

Philippines PICCS:

Present

U.S. regulations:

Components

beta-MERCAPTOETHYLAMINE
HYDROCHLORIDE

California Proposition 65

-
Not Listed

Massachusetts Right to

Know List:
Not Listed

New Jersey Right to

Know List:
Not Listed

Pennsylvania Right to Know

List:
Not Listed

Components

beta-MERCAPTOETHYLAMINE
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Florida substance List:

Not Listed

Rhode Island Right to

Know List:
Not Listed

Illinois - Toxic Air

Contaminants
Not Listed

Connecticut - Hazardous Air

Pollutants
Not Listed

Components

beta-MERCAPTOETHYLAMINE
HYDROCHLORIDESARA 313 Emission
reporting/Toxic Release
of Chemicals

Not Listed

CERCLA/SARA - Section NTP:
302 Extremely Haz

Not Listed

None

IARC:

None

SARA 313 Notification:

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification:

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet