

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Methanethiol (ampule)
Product Code: M06110
Supplier: Pfaltz & Bauer, Inc.
172 E. Aurora Street
Waterbury, CT 06708 USA
Phone: 203 574-0075
Fax: 203 574-3181
Emergency Phone: CHEMTREC, US: 1-800-424-9300
CHEMTREC, International: 1-703-527-3887

SECTION 2: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name: Methanethiol (ampule)
Synonyms: Mercaptan C1, Methyl mercaptan
CAS Number: 74-93-1
MDL Number: MFCD00004866
FEMA Number: Not Available
C.I. Number: Not Available
Beilstein Reg. Number: 1696840
Molecular Formula: CH₃SH
Molecular Weight: 48.11

SECTION 3: HAZARDS IDENTIFICATION

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.

Chronic Health Hazard: Flammable (USA) Extremely Flammable (EU). Highly Toxic (USA) Toxic (EU). Dangerous for the environment. Very toxic by inhalation. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Highly toxic if inhaled. Target organ effect.

HMIS Rating: H:4 F:4 R:0

NFPA Rating: H:4 F:4 R:0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

SECTION 4: FIRST AID MEASURES

<u>Eye Contact:</u>	Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention. May be fatal.
<u>Skin Contact:</u>	Wash skin with soap and water. If irritation persists, seek medical attention. May be fatal.
<u>Ingestion:</u>	Do not induce vomiting. Seek medical attention. Fatal.
<u>Inhalation:</u>	Move to a fresh air environment. Contact a physician if breathing becomes difficult. Fatal.

SECTION 5: FIRE FIGHTING MEASURES

<u>Flash Point:</u>	-18 °C
<u>Explosion Limits:</u>	Lower: 3.9 % by volume Upper: 21.8 % by volume
<u>Auto Ignition Temperature:</u>	Not Available
<u>Extinguishing Media:</u>	Carbon dioxide, dry chemical powder or foam, water spray.
<u>Protective Equipment:</u>	Wear self-contained respirator and fully protective impervious suit.
<u>Specific Hazards:</u>	Emits hazardous fumes under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

<u>Personal Protection:</u>	Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away.
<u>Environmental Protection:</u>	Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE

<u>Handling:</u>	Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or
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repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Storage: Store in a tightly closed container in a dry, well-ventilated place.

Storage Temperature: <52 °C at all times

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Wear appropriate protective eyeglass or chemical safety goggles. Eyewash facility in vicinity.

Skin: Wear impervious gloves and protective clothing.

Respiratory: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

<u>Exposure Limits:</u>	<u>Country</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>
	USA	ACGIH	TWA	1 mg/m ³
	USA	OSHA	PEL	20 mg/m ³

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Appearance: Gas, at room temperature clear colorless liquid.

Odor: Not Available

Melting Point: -123 °C

Boiling Point: 6 °C

Density: 1.66 g/l

Refractive Index, n_{20D}: Not Available

Viscosity: Not Available

Solubility in Water: Not Available

SECTION 10: STABILITY and REACTIVITY

Stability: Stable under normal temperatures and pressures.

Incompatibility: Avoid contact with moisture, metals, Strong bases, Strong oxidizing agents, Strong reducing agents, Halogenated solvents, Organic materials, Zinc Copper, Copper alloys.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Number: PB4375000

Target Organs: Nerves, Blood, Liver

Toxicity Data: Inhalation Rat LD₅₀: 675 ppm

Inhalation Mouse LD₅₀: 6.53 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Receptacles, small, containing gas (gas cartridges) [flammable, without release device, not refillable and not exceeding 1 L capacity]

DOT UN Number: UN2037

DOT Hazard Class: 2.1

DOT Packing Group: not allowed on aircraft

IATA Shipping Name: Receptacles, small, containing gas (gas cartridges) [flammable, without release device, not refillable and not exceeding 1 L capacity]

IATA UN Number: UN2037

IATA Hazard Class: 2.1

IATA Packing Group: not allowed on aircraft

SECTION 15: REGULATORY INFORMATION

United States:

Toxic Substance Control Act (TSCA): Listed

Superfund Amendments and Reauthorization Act (SARA 302): Not listed

Superfund Amendments and Reauthorization Act (SARA 313): Not listed

International:

European Inventory of Existing Chemical Substances (EINECS): Listed (200-822-1)

Canadian Domestic Substances List (DSL): Listed

SECTION 16: OTHER INFORMATION

Date Prepared: 5/19/09 MH

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgment to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.