

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 387.00

Revision Date: February 25, 2003

Section 1 — Chemical Product and Company Identification

Hexamethylenediamine

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Hexamethylenediamine (124-09-4) 80-95%, Water (7732-18-5) 5-20%

Synonyms: 1,6 Hexanediamine

CAS#: 124-09-4

Section 3 — Hazards Identification

Yellow liquid. Ammonia-like odor.

Corrosive to body tissues. Moderately toxic by ingestion. Avoid all body contact.

Combustible liquid.

FLINN AT-A-GLANCE

Health-2

Flammability-1

Reactivity-1

Exposure-2

Storage-0

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Combustible liquid.

Flash Point: 185 F (OC) Upper: 4.1% Lower: 0.9%

When heated to decomposition, emits toxic fumes of ammonia, hydrogen cyanide and nitrogen oxides.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None

Established

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand and absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides.

Store in a cool dry place. Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA .5 ppm, (ACGIH)

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Section 9 — Physical and Chemical Properties

Colorless liquid.
Solubility: Soluble in water; slightly in alcohol.
Material is produced with 5-20% water for commercial purposes.

Formula: H₂N(CH₂)₆NH₂
Density: .91 g/cm³
Formula Weight: 116.2

Section 10 — Stability and Reactivity

Avoid contact with acids, oxidizers, isocyanates, aldehydes, ketones, anhydrides, phenols, nitrates and halogenated compounds.
May be a liquid or solid at room temperature depending on the amount of water present.
Shelf life: Indefinite.

Section 11 — Toxicological Information

Acute effects: Corrosive
Chronic effects:
Target organs: skin, liver, kidneys

ORL-RAT LD₅₀: 750 mg/kg
IHL-RAT LC₅₀: >950 mg/m³
SKN-RBT LD₅₀: 1110 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

48-hr LC₅₀ Daphnia magna: 50 mg/L, slightly toxic.

Section 13 — Disposal Considerations

Please consult with state and local regulations.
Flinn Suggested Disposal Method #26b is one option.

Section 14 — Transport Information

Shipping Name: Hexamethylenediamine, solid
Hazard Class: 8, Corrosive
UN Number: UN2280

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (204-679-6).

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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Flinn Chemical Packaging Prevents Accidents

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