

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 387.00

Revision Date: July 13, 1996

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#: None established

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: 178 F (OC) Upper: 6.3% Lower: 0.7%

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.

Formula: $\text{H}_2\text{N}(\text{CH}_2)_6\text{NH}_2$ Formula Weight: .91 g/cm³

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with acids, oxidizers, isocyanates, aldehydes, ketones, anhydrides, phenols, nitrates and halogenated compounds.

Shelf life: Indefinite.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD50: 750 mg/kg

IHL-RAT LC50: >0.95 mg/L/4h

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

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**Consult your copy of the Flinn Chemical Catalog/Reference Manual
for additional information about laboratory chemicals**