



THATCHER COMPANY MATERIAL SAFETY DATA SHEET
PRODUCT: CYCLOHEXYLAMINE 60%
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MSDS Date: September 29, 2004
Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: Cyclohexylamine 60%
CHEMICAL NAME: Solution

DOT SHIPPING INFORMATION: Contact Thatcher Company customer service.

SECTION II - HAZARDOUS INGREDIENTS

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Cyclohexylamine	108-91-8	60%	TWA: 10 ppm REL: 10 ppm, 40 mg/m ³

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III - PHYSICAL DATA

BOILING POINT (F): Approx. 200

DENSITY: Abt. 0.93

VAPOR PRESSURE (mm Hg): 25

% VOLATILE, BY VOLUME: 100%

VAPOR DENSITY (air = 1): unknown

EVAPORATION RATE: Unknown

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Clear colorless liquid with amine odor.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: 112°F

FLAMMABLE LIMITS:

Lel: 1.5% (anhydrous) Uel: 9.4% (anhydrous)

EXTINGUISHING MEDIA:

Water fog, foam, carbon dioxide.

SPECIAL FIRE-FIGHTING PROCEDURES:

None.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.



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SECTION V - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS OR MATERIALS TO AVOID:

Do not mix with acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Can decompose to form chlorine or oxygen.

SECTION VI - HEALTH HAZARD DATA

CARCINOGENIC LISTING:

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:

Contact: Causes severe burns to skin and eyes. Can cause permanent damage or blindness from eye contact.

Ingestion: Can cause severe burns to the gastrointestinal tract which could result in death.

STATEMENT OF PRACTICAL TREATMENT:

Contact: Immediately flush with large amounts of cool water. For eyes, flush for at least 15 minutes and get medical attention at once.

Ingestion: Do not induce vomiting. Get medical attention at once.

SECTION VII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin or eyes. Do not take internally. Always wear safety equipment. Open containers carefully to avoid spattering.

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Wear safety equipment. Absorb with inert absorbent material such as dry sand, vermiculite or activated charcoal. Place in appropriate chemical waste container. Prevent from entering sewers basements and workpits.

WASTE DISPOSAL METHOD:

Contact the local EPA for information. Comply with all local, state and federal regulations.



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SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Wear appropriate respirator when ventilation is inadequate.

VENTILATION:

Normal ventilation required.

EYE PROTECTION:

Full face shield with goggles underneath.

SKIN PROTECTION:

Impervious gloves and Neoprene, butyl-rubber or nitrile boots.

OTHER PROTECTIVE EQUIPMENT:

Any other equipment needed to prevent skin or eye contact with the product or breathing of vapors.

ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

STEL = Short Term Exposure Limit (ACGIH)

ND = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.