

Section 1. Product and Company Identification

Product Name Dicyclohexylamine
CAS Number 101-83-7

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
☎ (914) 654-6800 ☎ (914) 654-6899
🌐 parchem.com ✉ info@parchem.com

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Toxicity, Oral (Category 4), H302
Skin Corrosion (Category 1A), H314
Serious Eye Damage (Category 1), H318
Acute Aquatic Toxicity (Category 1), H400
Chronic Aquatic Toxicity (Category 1), H410

GHS Label Elements, Including Precautionary Statements

Pictograms:



Signal Word: Danger

Hazard and Precautionary Statements

Hazard Statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.



P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P321 Specific treatment (see supplemental first aid instructions on this label).
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not Otherwise Classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Common Name	Dicyclohexylamine
Formula	$C_{12}H_{23}N$
CAS Number	101-83-7

Section 4. First Aid Measures

Description of First-aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most Important Symptoms and Effects, both Acute and Delayed: The most important known symptoms and effects are described in the labelling and/or in section 11.

Indication of any Immediate Medical Attention and Special Treatment Needed: No



data available

Section 5. Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special Hazards arising from the Substance or Mixture: Carbon oxides, nitrogen oxides (NO_x)

Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further Information: No data available

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and Materials for Containment and Cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Conditions for Safe Storage, including any Incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas.

Section 8. Exposure Controls / Personal Protection

Control Parameters

Components with Workplace Control Parameters: Contains no substances with occupational exposure limit values.

Exposure Controls

Appropriate Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

Eye/Face Protection: Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance

Form: Liquid

Odor: No data available

Odor Threshold: No data available

pH: 11 at 1g/L at 20°C (68°F)

Melting Point/Range: -2°C (28°F) - lit.

Initial Boiling Point and Boiling Range: 117 - 120°C (243 - 248°F) at 13 hPa (10 mmHg)

Flash Point: 96°C (205°F) - Closed Cup

Evaporation Rate: No data available

Flammability (Solid, gas): No data available

Upper/Lower Flammability or Explosive Limits: No data available

Vapor Pressure: 16 hPa (12 mmHg) at 37.7°C (99.9°F)

Vapor Density: 7.26

Relative Density: 0.912 g/cm³ at 20°C (68°F)

Water Solubility: No data available

Partition Coefficient (n-Octanol/Water): log Pow: -0.4 at 25 °C (77 °F)

Auto-Ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Explosive Properties: No data available

Oxidizing Properties: No data available

Other Safety Information

Relative Vapor Density: 7.26

Section 10. Stability and Reactivity

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: No data available

In the event of fire: See section 5

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity

LD50 Oral - Rat - male - 200 mg/kg

LC50 Inhalation - Rat - male - 6 h - > 1.4 mg/l

LD50 Dermal - Rabbit - male and female - 200 - 316 mg/kg

Skin Corrosion/Irritation

Skin - Rabbit

Result: Causes burns. - 24 h

Serious Eye Damage/Eye Irritation

Eyes - Rabbit

Result: Severe eye irritation

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity

Ames Test

S. typhimurium

Result: Negative

Mutagenicity (micronucleus test)

Mouse - Male

Result: Negative

Carcinogenicity

Carcinogenicity - Rat - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Gastrointestinal: Tumors. Liver: Tumors.

Carcinogenicity - Mouse - Subcutaneous

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity - Single Exposure: No data available

Specific Target Organ Toxicity - Repeated Exposure: No data available

Aspiration Hazard: No data available

Additional Information

Repeated dose toxicity - rat - male and female - Oral - No observed adverse effect level - 40 mg/kg

RTECS: HY4025000

Section 12. Ecological Information

Toxicity

Toxicity to Fish: semi-static test LC50 - *Oryzias latipes* - 12 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to daphnia and Other Aquatic Invertebrates: Immobilization EC50 - *Daphnia magna* (Water flea) - 8 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to Algae: EC50 - *Desmodesmus subspicatus* (green algae) - 3.3 mg/l - 72 h

Persistence and Degradability

Biodegradability aerobic - Exposure time 14 d

Result: 76.9 % - Readily biodegradable.
(OECD Test Guideline 301C)

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.



Other Adverse Effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US)

UN Number: 2565

Class: 8

Packing Group: III

Proper Shipping Name: Dicyclohexylamine

Marine Pollutant: No

Poison Inhalation Hazard: No

IMDG

UN Number: 2565

Class: 8

Packing Group: III

EMS-No: F-A, S-B

Proper Shipping Name: DICYCLOHEXYLAMINE

Marine Pollutant: No

IATA

UN Number: 2565

Class: 8

Packing Group: III

Proper Shipping Name: Dicyclohexylamine

Section 15. Regulatory Information

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard



Massachusetts Right to Know Components

Dicyclohexylamine

CAS-Number: 101-83-7

Revision Date: 1993-04-24

Pennsylvania Right to Know Components

Dicyclohexylamine

CAS-Number: 101-83-7

Revision Date: 1993-04-24

New Jersey Right to Know Components

Dicyclohexylamine

CAS-Number: 101-83-7

Revision Date: 1993-04-24

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

