

Safety Data Sheet (SDS) 3/17/2025: File reviewed, more current MSDS/SDS not available. CAS

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Cyclohexene

Signal Word
DANGER

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

Chemtrec Emergency Phone Number: (800) 424-9692

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



Hazard class: Aspiration hazard (Category 1). May be fatal if swallowed and enters airways (H304).



Hazard class: Acute toxicity, dermal (Category 3). Toxic in contact with skin (H311). Do not eat, drink or smoke when using this product (P270).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Cyclohexene	110-83-8	C ₆ H ₁₀	82.15	
Synonyms: Tetrahydrobenzene				

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin or hair: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

If swallowed: Immediately call a POISON CENTER or physician (P301+P310). Do NOT induce vomiting (P331).

Remove immediately all contaminated clothing (P361). Wash contaminated clothing before reuse (P363).

SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid.

NFPA Code

Flash point: -7 °C Flammable limits: Lower: 1% Upper: 5% Autoignition Temperature: 244 °C

H-1

When heated to decomposition, may emit toxic fumes.

F-3

In case of fire: Use a tri-class dry chemical fire extinguisher P370+P378).

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, oils, esters and aldehydes. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor™ can. May form explosive peroxides. Keep container tightly closed (P233). Keep cool (P235). Ground or bond container and receiving equipment (P240). Use explosion-proof electrical and ventilating equipment (P241). Use only non-sparking tools (P242).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling. Exposure guidelines: PEL/TLV 300 ppm (OSHA/ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid. Strong paint thinner-like odor.	Boiling point: 83 °C
Soluble: Alcohol. Insoluble in water.	Melting point: -103.5 °C
	Refractive index: 1.4465
	Specific gravity: 0.811

SECTION 10 — STABILITY AND REACTIVITY

Avoid any source of ignition and avoid oxidizing agents. Shelf life: Poor. Substance may form explosive peroxides. Avoid prolonged storage. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant, nausea, dizziness, and headache.	ORL-RAT LD ₅₀ : 2400 uL/kg
Chronic effects: N.A.	IHL-RAT LC ₅₀ : greater than 6370 ppm/4H
Target organs: N.A.	SKN-GPG LD ₅₀ : greater than 20 mL/kg

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #18b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Cyclohexene. Hazard class: 3, Flammable liquid. UN number: UN2256.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (203-807-8), RCRA code D001.

SECTION 16 — OTHER INFORMATION

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PRODUCT(S).

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

N/A = Not applicable

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

Revision Date: March 25, 2014
