

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 290.00

Revision Date: July 13, 1996

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Cyclohexane

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

Cyclohexane

CAS#: 110-82-7

SECTION 3 — HAZARDS IDENTIFICATION

Clear colorless liquid. Pungent odor; rubber cement-like.
Irritant to body tissues. Mildly toxic by ingestion, inhalation, and skin absorption. Avoid contact with body tissues.
Dangerous fire risk; extremely flammable.

FLINN AT-A-GLANCE

Health-1
Flammability-3
Reactivity-0
Exposure-1
Storage-3

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: Rinse out mouth with water. Give a mixture of 2 Tbs. of carbon in 8 oz. of water to drink. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid.
Flash Point: 0 F Upper: 8% Lower: 1.3% Autoignition Temperature: 500 F
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

H-1
F-3
R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Sweep up, place in 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, esters and aldehydes.
Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor can.
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 300 ppm (OSHA)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear colorless liquid. Pungent odor; rubber cement-like.
Solubility: Insoluble in water. Soluble in alcohol.
Formula: C₆H₁₂
Formula Weight: 84.18

Specific Gravity: 0.78
Boiling Point: 81 C

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with heat, open flame, any source of ignition and strong oxidizers.
Shelf life: Indefinite

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant, lung irritation, chest pain and edema which may be fatal, gastrointestinal disturbances
Chronic effects: N.A.

ORL-RAT LD50: 12705 mg/kg
IHL-RAT LC50: N.A.
SKN-RBT LD50: N.A.

Target organs: Lungs and nerves

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

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations.
Flinn Suggested Disposal Method #18a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Cyclohexane
Hazard Class: 3, Flammable liquid
UN Number: UN1145
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (203-806-2), RCRA code U056.

SECTION 16 — OTHER INFORMATION

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