

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 290.00

Revision Date: June 25, 2010

### 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 with a pungent odor like rubber cement.

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 and 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 at least 15 minutes.

External: Wash continuously with fresh water for at least 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 a 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 the area. 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, 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 a 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)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Clear colorless liquid with a pungent odor like rubber cement.

Specific Gravity: 0.78

Solubility: Insoluble in water. Soluble in alcohol.

Boiling Point: 81 °C

Formula: C<sub>6</sub>H<sub>12</sub>

Formula Weight: 84.18

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with heat, open flame, any source of ignition, and strong oxidizers.

Shelf life: Indefinite

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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

ORL-RAT LD<sub>50</sub>: 12705 mg/kg

Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

Target organs: Lungs and nerves

SKN-RBT LD<sub>50</sub>: N.A.

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please consult with state and local regulations.

Flinn Suggested Disposal Method #18a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Cyclohexane

Hazard Class: 3, Flammable liquid

UN Number: UN1145

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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

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**SECTION 16 — OTHER INFORMATION**

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