

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 290.00

Revision Date: July 26, 2011

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Cyclohexane

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

CHEMTREC Emergency Phone Number: (800) 424-9300

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### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

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Cyclohexane

CAS#: 110-82-7

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### SECTION 3 — HAZARDS IDENTIFICATION

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Clear, colorless liquid. Pungent rubber cement odor.

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

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### SECTION 4 — FIRST AID MEASURES

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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 or External: Immediately flush 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.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Class IB flammable liquid.

Flash point: -18 °C Flammable limits: Lower: 1.3% Upper: 8% Autoignition Temperature: 260 °C

**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

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### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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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.

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### SECTION 7 — HANDLING AND STORAGE

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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.

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### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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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: PEL 300 ppm (OSHA)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear colorless liquid with a pungent odor like rubber cement.

Solubility: Insoluble in water. Soluble in alcohol.

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

Formula weight: 84.18

Boiling point: 80.7 °C

Melting point: 6.6 °C

Refractive index: 1.4235

Specific gravity: 0.774

**SECTION 10 — STABILITY AND REACTIVITY**

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

Shelf life: Indefinite, if stored properly.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

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

Chronic effects: N.A.

Target organs: Lungs and nerves.

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

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

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

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 review all federal, state and local regulations that may apply, before proceeding.

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 Science Catalog/Reference Manual*  
for additional information about laboratory chemicals.**