

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 291.50

Revision Date: September 22, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Cyclohexanone

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Acute toxicity, dermal (Category 4). Harmful in contact with skin (H312).

Hazard class: Acute toxicity, inhalation (Category 4). Harmful if inhaled (H332). Avoid breathing mist, vapors or spray (P261).

Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).

Hazard class: Serious eye damage or irritation (Category 1). Causes serious eye damage (H318).

Hazard class: Germ cell mutagenicity (Category 2). Suspected of causing genetic defects (H341). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202).

Use personal protective equipment as required (P281).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Cyclohexanone	108-94-1	C ₆ H ₁₀ O	98.142	
Synonym: Cyclohexyl ketone				

SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313). **If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing (P305+P351+P338). **If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). **If skin irritation occurs:** Get medical advice or attention (P332+P313). **If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). **If swallowed:** Rinse mouth. Do not induce vomiting. Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).

SECTION 5 — FIRE FIGHTING MEASURES

Class II combustible liquid.

Flash point: 44 °C Flammable limits: Upper 9.4% Lower: 1.1% Autoignition Temperature: 420 °C

When heated to decomposition, may emit toxic fumes.

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

NFPA CODE

H-1

F-2

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #4. Store with ethers, ketones, and halogenated hydrocarbons. 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). Take precautionary measures against static discharge (P243).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Exposure guidelines: TLV 20 ppm (ACGIH); PEL 50 ppm (OSHA); IDLH 700 ppm. Absorbed readily through the skin.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless oily liquid. Peppermint and acetone odor. Partially soluble in water. Soluble in alcohol, ether, and some organic solvents.

Boiling point: 154-157 °C
Melting point: -47 to -32 °C
Refractive index: 1.4507
Specific gravity: 0.947
Vapor density: 3.4

SECTION 10 — STABILITY AND REACTIVITY

Avoid heat, sunlight, and ignition sources. Reacts with hydrogen peroxide, nitric acid, acids and bases, along with oxidizing and reducing agents. May attack some forms of plastics, rubber, and coatings. Shelf life: Fair, store in a cool, dry place.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Harmful by ingestion, inhalation or skin absorption. May be fatal. CNS depression, nausea, abdominal pain. Chronic effects: N.A. Target organs: Heart, blood, CNS, liver, lungs.

ORL-RAT LD₅₀: 1620 uL/kg
IHL-RAT LC₅₀: 8000 ppm/4H
SKN-RBT LD₅₀: 1 mL/kg

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

SECTION 12 — ECOLOGICAL INFORMATION

EC₅₀ *Daphnia* 820 mg/L/24H

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: Cyclohexanone. Hazard class: 3. UN number: UN1915.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

SECTION 16 — OTHER INFORMATION

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

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