

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 7.00

Revision Date: July 13, 1996

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Acetone

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

Acetone

Synonyms: dimethyl ketone, 2-propanone

CAS#: 67-64-1

SECTION 3 — HAZARDS IDENTIFICATION

Colorless liquid with sweet odor.

Class 1B Flammable liquid; serious fire hazard.

Irritating to body tissues. Avoid all body tissue contact. Mildly toxic by ingestion. Vapor causes weakness, fatigue, nausea and headache. Skin contact causes dermatitis.

FLINN AT-A-GLANCE

Health-1

Flammability-3

Reactivity-2

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 and mild liquid soap for 15 minutes.

Internal: Give no more than 1-2 cups of water for dilution. Do not induce vomiting. Call a physician or poison control immediately.

SECTION 5 — FIRE FIGHTING MEASURES

Class 1B Flammable liquid.

A dangerous fire hazard from heat, flame or strong oxidizers. Flash point: 0 F (CC)

Flammable limits: lower 2.6%, upper 12.8%. Autoignition temperature: 869 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. Remove all ignition sources and ventilate area. Contain spill with sand, and absorbent material; deposit in 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, halogenated hydrocarbons and ethylene oxide. 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 750 ppm, STEL 1000 ppm (OSHA, ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Sweet odor. Colorless liquid.
Solubility: Miscible with water, alcohol and ether.
Formula: CH₃COCH₃
Formula Weight: 58.08

Melting Point: -94.6 C
Boiling Point: 56.5 C
Vapor Pressure: 180mm @ 68 F
Vapor Density: 2.00
Density: 0.79

SECTION 10 — STABILITY AND REACTIVITY

Stable. Potentially explosive reaction with strong oxidizing agents and halogenated compounds.
Shelf life: Good, if stored safely.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: severe eye irritant
Chronic effects: causes dermatitis
Target organs: liver, kidneys

ORL-RAT LD50: 5800 mg/kg
IHL-RAT LC50: 50100 mg/m³/8H
SKN-RBT LD50: 20 g/kg

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 18b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Acetone
Hazard Class: 3, Flammable Liquid
UN Number: UN1090
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-662-2), RCRA code U002

SECTION 16 — OTHER INFORMATION

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