

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 7.00

Revision Date: March 7, 2001

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. Slightly 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 18a 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

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

This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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flinn@flinnsci.com www.flinnsci.com
P.O. Box 219 Batavia IL 60510
(800) 452-1261 Fax (866) 452-1436