

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 7.00

Revision Date: December 7, 2011

### 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. Sweet pungent odor like nail polish remover.

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 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: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, ensure vomit is not aspirated into the lungs. 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: -17 °C (CC) Flammable limits: Upper 12.8% Lower 2.6% Autoignition temperature: 465 °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

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. 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, 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, & 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 1000 ppm, TWA 500 ppm, STEL 750 ppm (OSHA, ACGIH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Sweet odor. Colorless liquid.

Solubility: Miscible with water, alcohol and ether.

Formula: CH<sub>3</sub>COCH<sub>3</sub>

Formula weight: 58.08

Boiling point: 56.5 °C

Density: 0.79

Melting point: -94.6 °C

Vapor density: 2.00

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**SECTION 10 — STABILITY AND REACTIVITY**

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Stable. Potentially explosive reaction with strong oxidizing agents and halogenated compounds.

Shelf life: Good, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Severe eye irritant.

Chronic effects: Dermatitis.

Target organs: Liver, kidneys.

ORL-RAT LD<sub>50</sub>: 5800 mg/kgIHL-RAT LC<sub>50</sub>: 50,100 mg/m<sup>3</sup>/8HSKN-RBT LD<sub>50</sub>: 20 g/kg

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

Flinn Suggested Disposal Method #18a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Acetone

Hazard class: 3, Flammable Liquid

UN number: UN1090

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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

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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.**