

Material Safety Data Sheet



Sultan Healthcare

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EU Auth. Rep. (MDD 93/42/EEC)

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FOR CHEMICAL EMERGENCY: CALL INFOTRAC 1-800-535-5053 24 Hrs. per day, 7 days per week
Outside the United States call collect 1-352-323-3500

Date Reviewed: May 19, 2008

Q-Form 10-111, Rev D

1. Chemical Identification

Common Name: Acetone

Ref #: 20102

2. Composition/Information on Ingredients

Acetone CAS # 67-64-1 Percent: 100 %

3. Hazards Identification

Danger!: Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Harmful if inhaled. High vapor concentrations may cause drowsiness. Causes skin and eye irritation. Harmful if swallowed.

Inhalation: High concentrations may lead to central nervous system effects (drowsiness, nausea, headaches, paralysis and loss of consciousness). High vapor concentrations are irritating to the eyes, nose, throat, and lungs.

Skin: Moderately irritating to the skin.

Eyes: Contact with the eye may cause moderate to severe irritation.

Ingestion: Product may be harmful or fatal if swallowed. Material is a pulmonary aspiration hazard. Material can enter lungs and cause damage. Ingestion of this product may cause central nervous system effects, which can include dizziness, loss of balance and coordination, unconsciousness, coma, and even death.

4. First Aid Measures

Eye Contact: Irrigate with flowing water immediately and continuously for 15 minutes and consult medical personnel.

Skin Contact: Immediately flush skin with plenty of water. Remove clothing. Wash clothing separately before reuse.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire Fighting Measures

Extinguishing Media: Water spray, Alcohol resistant foam, Dry chemical, Carbon dioxide.

Fire fighting method: Use water spray. Cool tank and container. Acetone/water solutions that contain more than 2.5% acetone have flash points. When the acetone concentration is greater than 8% (by weight) in a closed container, it would be within the flammable range and cause fire if a source of ignition were introduced.

Flash Point and Method: Typical: 1.4 F

Autoignition Temp: 869 F

LEL: 2.5 %

UEL: 12.8 %

6. Accidental Release Measures: Prevent ignition, stop leak and ventilate the area. Contain the spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. After removal, flush contaminated area thoroughly with water.

7. Handling and Storage

Handling: Use only in a well-ventilated area. Ground and bond containers when transferring material. Avoid breathing (dust, vapor, mist, gas). Avoid contact with this material. Wash thoroughly after handling. Do not use air pressure to unload containers.

Storage: Keep away from heat, sparks, and flame. Store in a cool dry place. Keep container closed when not in use.

8. Exposure Controls/Personal Protection

Engineering Controls: Use with adequate ventilation.

Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Use explosion proof ventilation equipment.

Respiratory Protection: Concentration in air determines the level of respiratory needed. Use only NIOSH certified respiratory equipment. Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposure to ten times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable to fifty times the exposure limit. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposure greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an unconditional release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH/MSHA- approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions

Gloves or Hand Protection: The gloves listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Protective gloves are recommended to protect against contact with product. Neoprene, natural rubber.

Eye Protection: Splash proof chemical goggles or full-face shield recommended to protect against splash of product.

Other: The following materials are acceptable for use as protective clothing: Neoprene, natural rubber

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ACGIH: STEL 750 ppm

ACGIH: TWA 500 ppm

OSHA: TWA 1000 ppm

9. Physical and Chemical Properties

Appearance: Clear colorless liquid

Molecular Weight: 58.08 g/mole

Odor: Sweet pungent

Solubility in Water: Complete

pH (@ 25 C): Neutral

Bulk Density: No data

Boiling Point (° C): 133 F

Melting Point: (-) -137.2 F

Odor Threshold: 62 ppm

Vapor Pressure (mm Hg @ C) 181 mmHg/20C

Specific Gravity (H₂O = 1): 0.79

Viscosity: No data

10. Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Combustion may produce carbon monoxide, carbon dioxide and other asphyxiates.

Conditions to Avoid: Avoid heat, sparks and open flame.

Incompatibility: Strong oxidizers

11. Toxicological Information:

Inhalation:

LC₅₀ (mg/l): no data

LC₅₀(mg/m³): no data

LC₅₀ (ppm): no data

Skin:

Draize Skin Score: no data

LD₅₀ (mg/kg): no data

Ingestion:

LD₅₀ (g/kg): 5.8

12. Ecological Information

No data available

13. Disposal Considerations

Follow federal, state and local regulations. In Canada, follow federal, provincial and local regulations. This material is a RCRA hazardous waste. Do not flush material to drain or storm sewer. Contract to authorized disposal service.

14. Transit Information

DOT Proper Shipping Name: Acetone

DOT Hazard Class: 3 (Flammable Liquid)

DOT UN/NA No: UN 1090

15. Regulatory Information

ACGIH 1999 – Short Term Exposure Limits

ACGIH 1999 – Time Weighed Averages

Canada – WHMIS: Ingredients Disclosure

CERCLA/SARA – Haz Substances and their RQs

Inventory – Canada – Domestic Substances List

Inventory – European EINECS Inventory

Inventory – Japan – (ENCS)

Inventory – Korea – Existing and Evaluated

Inventory – TSA – Sect. 8(b) Inventory

Massachusetts Right to Know List

New Jersey – Department of Health RTK List

New Jersey – Special Hazardous Substances

OSHA – Final PELs – Time Weighted Averages

Pennsylvania Right to Know List

TSCA – Sect. 12(b) – Export Notification

16. Other Information:

If swallowed, acetone should be removed by emesis and/or gastric lavage. Mechanical assisted ventilation may be necessary. In severe cases, an initial period of hypoglycemia may require correction by intravenous solutions of dextrose. In some cases, an initial period of hyperglycemia has occurred during the recovery phase and has lasted for a few days. Treatment with insulin may be beneficial but should be used cautiously. This product is subject to the Chemical Diversion and Trafficking Act of 1988 and subject to specific record keeping requirements. WHMIS Classification: Class B Division 2 – Flammable Liquids.

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