

MATERIAL SAFETY DATA SHEET

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ATTN: PLANT MGR/SAFETY DIR

Revision Date: 07/03/08
Date Printed: 12/11/00
MSDS File id: MSDSLT02
Customer No:
Whse No: 0003

This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

I. IDENTIFICATION

Product Name: Acetone
Common Name: 2-Propanone; Dimethyl ketone
Formula: CH₃COCH₃

II. INGREDIENTS AND RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS

Component: Acetone
% Weight: Approx. 100
Cas. No.: 67-64-1
Exposure Limits: OSHA-PEL: TWA-750 ppm; STEL-1000 ppm
ACGIH-TLV: TWA-750 ppm; STEL-1000 ppm
Oral LD50: 5800 mg/kg (rat)
Dermal LD50: 20 gm/kg (rabbit)

HAZARD DATA - DANGER!

Extremely Flammable Liquid and Vapor. May cause eye, skin,
and upper respiratory tract irritation.

INGREDIENT HAZARD INFORMATION

Acetone is identified as a SARA Section 313 chemical.

III. PHYSICAL DATA

Boiling Point (Deg. F): 133
Melting Point (Deg. F): -138
Vapor Pressure (mm Hg.) @ 20 Deg. C: 180
Vapor Density (AIR=1): 2.00
Appearance and Odor: Colorless liquid; pungent odor
Specific Gravity (H₂O=1) @ 25 Deg./25: 0.790
Evaporation Rate (n-BuAc=1.0): 5.6 Fast
pH: Not Applicable
Solubility in Water: Complete

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)

15 Deg. F (Open Cup)

Flammable Limits:

Lel: 2.6%

Uel: 12.8%

EXTINGUISHING MEDIA

Carbon dioxide or dry chemicals; large fires - "alcohol type" foam. Water may be ineffective, but should be used to keep fire and exposed containers cool.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray or fog, jet stream may spread fire.

Firefighters should wear self-contained breathing equipment and protective clothing.

UNUSUAL FIRE AND EXPLOSION PROCEDURES

Vapors are heavier than air and may travel to distant ignition sources.

V. REACTIVITY DATA

Stable: Yes

Unstable: No

Conditions to Avoid: Strong oxidizing agents

INCOMPATIBILITY (Materials to Avoid)

Oxidizing agents, ignites when reacted with potassium tert-butoxide.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide, organic acids.

Polymerization May Occur or Will Not Occur:

CONDITIONS TO AVOID: None

VI. SPILL OR LEAK PROCEDURES

TRANSPORTATION EMERGENCIES

Call CHEMTREC 800-424-9300

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Dike with sand or earth. Prevent from entering sewers or waterways, remove heat, and ignition sources. Absorb with sand or earth and place in covered and labeled drum.

Acetone is on the CERCLA hazardous substance list of 1980, as amended, and reportable spills must be reported to the National Response Center.

In case of release to the environment, report spills to 800-424-8802, The National Response Center.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations.

VII. HEALTH HAZARD DATA

MAJOR EXPOSURE HAZARDS

Inhalation: Yes
Skin Contact: Yes
Eye Contact: Yes
Ingestion: No

EFFECTS OF OVEREXPOSURE:

INHALATION: High vapor concentrations may irritate the eyes and mucous membranes of the nose and throat. Severe overexposure (i.e. >12,000 ppm) can cause Central Nervous System depression including nausea, vomiting, headache, incoordination and dizziness.

SKIN CONTACT: Repeated or prolonged contact of the liquid with the skin can cause redness and a dry, scaly and fissured dermatitis.

EYE CONTACT: Eye contact resulting from splashes or high vapor concentration exposures is irritating. When acetone was absorbed systemically, it caused cataracts in some laboratory animals.

INGESTION: Effects are intoxicating. These acute symptoms might include early emotional instability, impaired motor coordination, nausea, vomiting, drowsiness, stupor and finally coma. Ten to 20 ml has been taken orally without ill effect.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with chronic respiratory disorders (i.e., asthma, chronic bronchitis, emphysema, etc.) may be adversely affected by any fume or airborne particulate matter exposure. Persons with pre-existing skin disorders may be more susceptible to dermatitis.

CARCINOGENICITY: Not Applicable
NTP:
IARC:
OSHA:

OTHER COMMENTS: The health hazards associated with acetone are considered to be relatively low. No reports were seen in the literature that implicated acetone as a carcinogen, mutagen or reproductive toxin.

VIII. EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration (mouth-to-mouth) or oxygen as indicated. Call a physician.

SKIN CONTACT: Remove contaminated clothing. Wash skin thoroughly with soap and plenty of water. Call a physician.

EYE CONTACT: Flush with large amounts of water for at least 15 minutes. Call a physician.

INGESTION: For large amounts, give 1-2 glasses of milk or water. Induce vomiting by touching finger to the back of throat. Never give anything by mouth to an unconscious person.

IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY: NIOSH/MSHA approved organic vapor respirator should be used to avoid excessive inhalation. Appropriate respirator selection depends on magnitude and type of exposure.

SKIN: Natural rubber or butyl rubber gloves should be used to prevent skin contact. Where employees may be splashed, polyethylene protective aprons or clothing should be provided. A face shield should be used to prevent facial contact.

EYE: Employees should be required to wear chemical safety glasses to prevent eye contact.

VENTILATION: Local exhaust ventilation should be used to control the build-up of air contaminants. General dilution ventilation may help to reduce air contaminant concentrations.

OTHER PROTECTIVE EQUIPMENT: An eyewash station and deluge safety shower should be available in the work area. Moisturizing creams can be used to prevent excessive drying of the skin.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Extremely flammable, keep away from heat, sparks, and fire. Keep container closed. Store away from oxidizers. Bond and ground containers for transfers of this product to prevent static sparks.

X. REGULATORY STATUS

TSCA STATUS: This product (or its ingredients if it is a mixture) appears on the Toxic Substances Control Act Inventory (TSCA).

SARA HAZARD CATEGORIES (Section 311 and Section 312):

Reactivity: No

Immediate Health: Yes

Pressure: No

Delayed Health: Yes

Fire: No

SARA Section 313: See Section II, Ingredient Hazard Statement.

DOT SHIPPING NAME: Acetone

DOT HAZARD CLASS: Flammable Liquid

IDENTIFICATION NUMBER: UN 1090

HMIS RATINGS (Hazardous Materials Identification System, Scale 0-4):

Health: 1

Flammability: 3

Reactivity: 0

NFPA RATINGS (National Fire Protection Association, Scale 0-4):

Health: 1

Flammability: 3

Reactivity: 0