

MATERIAL SAFETY DATA SHEET

MSDS No.: AA0025

MSDS No.: FACE
Revision Date: April 1, 2008
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Section 1 Chemical Product and Company Information

Product	ACETONE
Synonyms	2-Propanone; Dimethyl ketone; Solvent

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units
Acetone	67-64-1	100%	TWA: 500 ppm; STEL: 750 ppm (ACGIH 2001)

Section 3 Hazards Identification

Emergency Overview

DANGER! EXTREMELY FLAMMABLE!
CAUSES EYE AND SKIN IRRITATION.

Do not use or store near heat, sparks or flame. Keep container closed. Use only in a well-ventilated area. Avoid contact with skin and eyes. Avoid prolonged or repeated breathing of vapor.

Target organs: Central nervous system.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Health	2
Fire	3
Reactivity	0
Contact	1

HMIS *

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Fires involving a small amount of combustibles may be smothered by dry chemical. Acetone is extremely flammable and its vapors form explosive mixtures with air. Dangerous when exposed to heat, sparks, flame or oxidizing agents.

Extinguishing Media: Carbon dioxide, dry chemical, water spray, alcohol foam.

Flash Point: ~ 20°C (-4°F) Closed Cup

Autoignition temperature: 465°C (869°F)

Explosion Limits: Lower: 2.5% **Upper:** 12.8%

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe



Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Remove all sources of ignition. Provide adequate ventilation. Recover for use if not contaminated. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 127)

Section 7 Handling & Storage **FLAMMABLE STORAGE CODE RED**

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: Use a chemical fume hood and/or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Liquid.
Appearance: Clear, colorless.
Odor: Pungent odor.
pH: N/A
Vapor pressure (mm Hg): 180
Vapor Density (Air = 1): 2.00
Evaporation rate (Butyl acetate = 1): 7.7
Viscosity: N/A

Boiling point: 56°C (133°F)
Freezing / Melting point: -95°C (-139°F)
Decomposition temperature: N/A
Solubility: Complete.
Specific gravity (H₂O = 1): 0.8
Percent volatile (%): 100%
Molecular formula: CH₃COCH₃
Molecular weight: 58.08

Section 10 Stability & Reactivity

Chemical stability: Stable **Hazardous polymerization:** Will not occur.

Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatibilities with other materials: Chloroform, chromic anhydride, hydrogen peroxide, nitric compounds, acids, strong oxidizers, alkalis.

Hazardous decomposition products: Oxides of carbon.

Section 11 Toxicological Information

Effects of overexposure: Inhalation of this material is irritating to the eyes, nose and throat. High vapor concentrations may result in headache, dizziness and nausea. Repeated skin contact causes defatting and chapping and drying. Contact with eyes causes severe irritation, redness and swelling. Slightly toxic by ingestion. Causes nausea, vomiting, headache, dizziness and unconsciousness. Aspiration hazard. Repeated or prolonged exposure may cause liver and kidney damage.

ORL-RAT LD50: 5800 mg/kg

IHL-RAT LC50: 50100 mg/m³/8H

SKN-RBT LD50: 20 g/kg

Section 12 Ecological Information

Do not flush into surface water or sanitary sewer system. Non-toxic to aquatic life. Readily biodegradable.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: UN1090

Shipping name: Acetone

Hazard class: 3

Packing group: II

Exceptions: Ltd Qty ≤ 1 Lt.

Section 15 Regulatory Information

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

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards.