

MATERIAL SAFETY DATA SHEET



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MSDS No.: AA0025
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Acetone	HEALTH	2
Chemical Synonyms	2-Propanone; Dimethyl Ketone; Solvent	Fire	3
Formula	CH ₃ COCH ₃	Reactivity	0
Unit Size	Up to 20 Liters.	HAZARD RATING	
C.A.S. No.	67-64-1	MINIMAL	0
		SLIGHT	1
		MODERATE	2
		SERIOUS	3
		SEVERE	4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Acetone	100%	TWA: 500 ppm

DANGER! EXTREMELY FLAMMABLE!

CAUSES EYE AND SKIN IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	-95°C (-139°F)	Specific Gravity (H ₂ O = 1)	0.7899 @ 60°F
Boiling Point (°F)	56°C (133°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	180	Evaporation Rate (Butyl acetate = 1)	>6.0
Vapor Density (Air=1)	2.00		
Solubility in Water	Completely miscible		
Appearance & Odor	Colorless liquid, pungent odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	-20°C (-4°F) CC	Flammable Limits in Air % by Volume	Lower: 2.5% Upper: 13%
Extinguisher Media	Carbon dioxide, dry chemical, water spray, alcohol foam.		

SPECIAL FIREFIGHTING PROCEDURES

Water should be used to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure and to dilute spills to non-flammable mixtures. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Acetone is extremely flammable and its vapors form explosive mixtures with air. Dangerous when exposed to heat, sparks, flame or strong oxidizing agents.

Autoignition Temperature: 465°C (869°F).

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

D.O.T. Acetone, 3, UN1090, PG II, Ltd Qty ≤ 1 L.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

TWA: 500 ppm; STEL: 750 ppm (ACGIH 2001)

Effects of Overexposure

concentrations may result in headache, dizziness and nausea. **SKIN:** Repeated contact causes dermatitis and chapping and drying of skin. **EYES:** Causes severe irritation, redness and swelling. **INGESTION:** Slightly toxic, causes nausea, vomiting, headache, dizziness and unconsciousness. Aspiration hazard. Repeated or prolonged exposure may cause liver and kidney damage. Target organs: Central nervous system.

Emergency and First Aid Procedures

INHALATION: 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. **EYES:** 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:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INGESTION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Stable	Conditions to Avoid
		X	Excessive temperatures, heat, sparks, open flame and other sources of ignition.
Incompatibility (Materials to Avoid)	Chloroform, chromic anhydride, hydrogen peroxide, nitric compounds, acids, strong oxidizers.		

Hazardous Decomposition Products

Oxides of carbon.

Hazardous Polymerization

Conditions to Avoid

May Occur	Will Not Occur
	X

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Eliminate all sources of ignition. Ventilate area. Absorb with an inert dry material, carefully sweep up and place in an appropriate container for proper disposal. Wash spill area with soap and water.

Waste Disposal Method

Discharge, treatment or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog size quantities only.

Dispose of in an approved incinerator or contract with a licensed chemical waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Work in fume hood or wear a NIOSH/MSHA-approved respirator			
Ventilation	Local Exhaust	Recommended	Special	Other
	Mechanical (General)	Recommended		
Protective Gloves	Rubber		Eye Protection	

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep away from heat, sparks and flame. Store in a cool, dry, well-ventilated area. Use only with adequate ventilation. Wash thoroughly after handling.

Other Precautions

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

Avoid contact with eyes. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact with skin. Remove and wash contaminated clothing.

Revision No.	Date	Approved	Chemical Safety Coordinator
16	01/01/07	James A. Bertsch	JAB

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