

IMPORTANT
MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
 OSHA requires that this form be kept on file.
Product No. KM 317 M
Product Name ACETONE

24 HOUR EMERGENCY ASSISTANCE
CHEMTREC 800-424-9300
HAZARD RATING

4-EXTREME	Health Hazard	1
3-SEVERE	Flammability	3
2-MODERATE	Reactivity	2
1-SLIGHT		
0-MINIMAL		

SECTION I	NAME
Chemical Synonyms	Dimethylketone
Formula	CH ₃ COCH ₃
C.A.S. No.	67-64-1

SECTION II	HAZARDOUS INGREDIENTS OF MIXTURES			
Principal Hazardous Component(s)	%	P.E.L.	TLV Units	
one				

SECTION III				PHYSICAL DATA	
Melting Point (°F)	-95°C	Specific Gravity (H ₂ O=1)	.80	Percent Volatile by Volume (%)	100%
Boiling Point (°F)	56.5°C	Evaporation Rate (Burl. Acetab. =1)	7	Vapor Pressure (mm Hg)	400 @ 39.5°C
Vapor Density (Air=1)	2.0	Solubility in Water	100%	Appearance & Odor	Clear colorless liquid, distinctive odor

SECTION IV					FIRE AND EXPLOSION HAZARD DATA		
Flash Point (Method Used)	-18°C closed cup	Flammable Limits in Air % by Volume	Lower	Upper	2.6	12.8	
Extinguisher Media	Water spray, dry chemical, alcohol foam, or carbon dioxide						

Special Firefighting Procedures
 In the event of a fire, wear protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water may be used to dilute and cool.

Unusual Fire and Explosion Hazards
 Flammable. Autoignition temperature 465°C. Above flash point vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back.

D.O.T. Acetone, 3, UN1090, PGII

SECTION V HEALTH HAZARD DATA
Threshold Limit Value
 750 ppm (TWA)

Effects of Overexposure
 May be absorbed through the skin. Acute: Irritation to skin, eyes, lungs, mucous membranes, and GI tract. Nausea, dizziness, headache, narcotic effect, CNS depression. Chronic: Dermatitis, liver damage.

Emergency and First Aid Procedures
Skin: Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. **Eyes:** Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. **Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. **Ingestion:** Do Not induce vomiting. Call physician immediately.

SECTION VI		REACTIVITY DATA	
Stability	Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	Conditions to Avoid	Heat, ignition sources.
Incompatibility (Materials to Avoid)			Oxidizing agents, chloroform, acids, and alkalies, potassium t-butoxide
Hazardous Decomposition Products			Carbon oxides
Hazardous Polymerization	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid	None

SECTION VII SPILL OR LEAK PROCEDURES
Steps to be Taken in Case Material is Released or Spilled
 Ventilate area leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Small spills may be absorbed on paper towels and evaporated in fume hood. Allow enough time for fumes to clear hood, then ignite paper in a suitable location away from combustible materials. Contain and recover liquid when possible.

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. Can be liquid incinerated in RCRA approved combustion chamber or absorb with vermiculite, dry sand, earth, or similar material. Scoop up with non-sparking tools and place in closed container, and dispose in RCRA approved facility. Do not flush to sewer.

SECTION VIII				SPECIAL PROTECTION INFORMATION			
Respiration Protection (Specify Type)	Organic cartridge or self contained.						
Ventilation	Local Exhaust	X	Special	-----			
	Mechanical (General)	X	Other	-----			
Protective Gloves	Poly or Rubber		Eye Protection	Goggles			
Other Protective Equipment	Lab Coat						

SECTION IX SPECIAL PRECAUTIONS
Precautions to be Taken in Handling & Storing
 Keep container tightly closed when not in use.
 Store in a cool well ventilated place.

Other Precautions
 Read label on container before using. Do not wear contact lenses when working with chemicals.
 Read label on container before using.

Approved by Steven C. Quandt Effective Date 10/31/94 For laboratory use only. Not for drug, food or household use. Keep out of reach of children.