


# MATERIAL SAFETY DATA SHEET

3300 CENCO Parkway  
Franklin Park, IL 60131  
(847) 451-0150

401 Vansickle Road  
St. Catharines, Ontario L2S 3T6

MSDS No. AA 25  
Effective Date January 14, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	ACETONE	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177	<b>Health</b>	2
<b>Chemical Synonyms</b>	2-Propanone; Dimethyl Ketone		<b>Fire</b>	3
<b>Formula</b>	CH <sub>3</sub> COCH <sub>3</sub>		<b>Reactivity</b>	0
<b>Unit Size</b>	Up to 20 Liters.		<b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	
<b>C.A.S. No.</b>	67-64-1		<b>HMIS *</b> 3 4	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Acetone: (CAS No. 67-64-1)	>99.5%	See Section V.
May contain trace amounts of		
Benzene: (CAS No. 71-43-2) (suspected carcinogen).		
<b>DANGER! EXTREMELY FLAMMABLE! CAUSES EYE IRRITATION</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	-94°C (-137°F)	Specific Gravity (H <sub>2</sub> O = 1)	0.7880 @ 25°C/25°C
Boiling Point (°F)	56.48°C (132.8°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	181.7 @ 20°C.	Evaporation Rate (Butyl Ac. =1)	>7.0
Vapor Density (Air=1)	2.00		
Solubility in Water	Completely miscible.		
Appearance & Odor	Colorless liquid, pungent odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	- 18°C (0°F) TCC	<b>Flammable Limits in Air % by Volume</b>	Lower	Upper
			2.6%	12.8%
<b>Extinguisher Media</b>	Carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC); 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.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 127)

## 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: 1000°F (538°C).

D.O.T. ACETONE, 3, UN 1090, PG II

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

## SECTION V HEALTH HAZARD DATA

AA 25

<b>Threshold Limited Value</b>	TWA (Air): 750 ppm; 1, 780 mg/m <sup>3</sup> STEL (Air): 1, 000 ppm 2380 mg/m <sup>3</sup> (ACGIH 1992-93).
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## Effects of Overexposure

**INHALATION:** Vapors are irritating to eyes, nose, and throat. High vapor concentrations may result in headache, dizziness, and nausea. **SKIN:** Repeated contact causes defatting 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.

## Emergency and First Aid Procedures

**INHALATION:** Remove to fresh air. If breathing has stopped, give artificial respiration. Give oxygen by qualified personnel, call a physician. **SKIN:** Wash contact area with soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INGESTION:** **DO NOT INDUCE VOMITING!** Call a physician. If conscious, give one or two glasses of water to drink. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperatures, heat, sparks and open flame and other sources of ignition.
	<b>Stable</b>	X		
<b>Incompatibility (Materials to Avoid)</b>	Chloroform; Chromic Anhydride; Hydrogen Peroxide; Nitric Acid and Acetic Acid; Nitric and Sulfuric Acid; Sulfuric Acid and Potassium Dichromate. Strong oxidizers.			

<b>Hazardous Decomposition Products</b>	Complete combustion yields carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.
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<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>
<b>May Occur</b>	<b>Will Not Occur</b>
	X
	Not applicable.

## SECTION VII SPILL OR LEAK PROCEDURES

<b>Steps to be taken in case material is released or spilled</b>	Eliminate all sources of ignition. <u>Small spill</u> - allow to evaporate if it can be done safely. Otherwise soak up with absorbent material and scoop into drum.
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<b>Waste Disposal Method</b>	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.
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Burn in an approved incinerator, if local environmental regulations permit.

## SECTION VIII SPECIAL PROTECTION INFORMATION

<b>Respiration Protection (Specify Type)</b>	Work in fume hood or wear a NIOSH/MSHA-approved all purpose canister mask.			
<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	No.
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	Adequate to maintain below exposure limit.
<b>Protective Gloves</b>	Rubber.		<b>Eye Protection</b>	Chemical safety glasses.

<b>Other Protective Equipment</b>	Safety glasses, lab coat, vented hood, proper gloves, fire extinguisher, eye wash station.
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## SECTION IX SPECIAL PRECAUTIONS

<b>Precautions to be Taken in Handling &amp; Storing</b>	Keep away from heat, sparks, flame. Store in a cool, well-ventilated area. Use with adequate ventilation.
Keep container tightly closed when not in use.	

<b>Other Precautions</b>	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid contact with eyes. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact with skin. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

<b>Revision</b>	No. 7	<b>Date</b>	1/14/99	<b>Approved</b>	Michael Raszeja	<b>Chemical Safety Coordinator</b>	MR
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