



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 570
Effective Date February 19, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CYCLOHEXENE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS* HIGH EXTREME 3 4
Chemical Synonyms	1,2,3,4-Tetrahydrobenzene	
Formula	C ₆ H ₁₀	
Unit Size	up to 4 Lt.	
C.A.S. No.	110-83-8	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cyclohexene	100%	See Section V.
DANGER! EXTREMELY FLAMMABLE! HARMFUL IF INHALED		
OR SWALLOWED. CAUSES SKIN AND EYE IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	-103.7°C (-155°F)	Specific Gravity (H ₂ O = 1)	0.8102 at 20°/4°C.
Boiling Point (°F)	82 - 84°C (179.6 - 183.2°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	67 mm at 20°C	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	2.8		
Solubility in Water	Insoluble.		
Appearance & Odor	Clear, colorless liquid; sweetish odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	20°F (-7°C) TCC	Flammable Limits in Air % by Volume	Lower 1.46%	Upper 6.65%
Extinguisher Media	Foam, carbon dioxide (CO ₂); dry chemical (ABC).			

SPECIAL FIREFIGHTING PROCEDURES	In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
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(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 130)

UNUSUAL FIRE AND EXPLOSION HAZARDS	
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Dangerous, EXTREMELY FLAMMABLE when exposed to heat or flame; can react with strong oxidizing materials.
Auto-ignition Temperature: 471°F (244°C)

D.O.T. **CYCLOHEXENE, 3, UN 2256, PG II**

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

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value	TWA (ACGIH 1992-93): 300 ppm; 1010 mg/m ³ .
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Effects of Overexposure	TARGET ORGANS AFFECTED: Central nervous system. Exposure to vapor may cause irritation to eyes, lungs and mucous membranes. Excess exposure may cause headache, dizziness, nausea, central nervous system depression and unconsciousness. Contact with liquid may cause eye or skin irritation and skin defatting.
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Emergency and First Aid Procedures	EYE CONTACT: Flush with water for 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. SKIN: Flush with water, follow by washing with mild soap and water. INHALATION: Remove to fresh air. Administer oxygen or artificial respiration, if needed. Get medical attention. INGESTION: If swallowed, do NOT induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person.
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SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Stable at ambient temperatures and pressures. Excessive temperature and heat.
	Stable	X	

Incompatibility (Materials to Avoid)	Strong oxidizing agents.
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Hazardous Decomposition Products	When heated to decomposition emits various hydrocarbon material, carbon dioxide and/or carbon monoxide.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Remove ignition sources. Wearing suitable protective clothing and good ventilation, absorb in inert material (vermiculite, sand, earth, etc.). Using non-sparking tools shovel into secure containers for proper disposal. Wash spill area with soap and water.
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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 chemical landfill or contract with a licensed waste disposal service.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	In the laboratory, work in ventilation hood. For emergency use wear a NIOSH/MSHA-approved self-contained breathing apparatus or respirator fixed with organic vapor canister.		
Ventilation	Local Exhaust	Yes (Recommended).	Special
	Mechanical (General)	Yes (Explosive proof).	Other
Protective Gloves	Neoprene.	Eye Protection	Chemical safety glasses.
Other Protective Equipment	Goggles, lab coat, apron, ventilation hood, proper gloves, fire extinguisher.		

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, well-ventilated area away from strong oxidizing material and fire hazards. Wash thoroughly after handling. Keep container tightly closed when not in use.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Keep container closed. Avoid breathing vapor. Use with adequate ventilation. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
Revision No. 7 Date 2/19/99 Approved Michael Raszeja Chemical Safety Coordinator MR

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