



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. HH 20
Effective Date March 5, 1999

SECTION V HEALTH HAZARD DATA

HH 20

Threshold Limited Value RTECS No. MI7700000 Toxicity data: lvn-mus LD50 222 mg/kg. TWA: Airborne Exposure: 400 ppm; 1640 mg/m³ STEL: 500 ppm; 2050 mg/m³. (ACGIH 1992-93).

Effects of Overexposure **TARGET ORGANS AFFECTED:** Central nervous system. **INHALATION:** May irritate the respiratory tract. May produce light headedness, dizziness, muscle incoordination, loss of appetite and nausea. Higher concentrations may produce central nervous system depression, narcosis and unconsciousness. **INGESTION:** Aspiration hazard. May produce abdominal pain, nausea, other symptoms expected to parallel inhalation. **SKIN CONTACT:** May cause mild irritation, redness, pain. **EYE CONTACT:** Vapor may irritate the eyes. Splashes may produce redness and pain.

Emergency and First Aid Procedures **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician immediately. **INGESTION:** Do NOT induce vomiting. If conscious, give water or milk to drink. Get medical attention immediately. Never give anything by mouth to an unconscious person. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention.

SECTION VI REACTIVITY DATA

Stability **Unstable** **Conditions to Avoid** Keep away from heat, sparks, flame and ignition sources. **Stable** X Stable at room temperature in sealed container.

Incompatibility (Materials to Avoid) Strong oxidizers, such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

Hazardous Decomposition Products Carbon dioxide and carbon monoxide may be formed when heated to decomposition.

Hazardous Polymerization **Conditions to Avoid**
May Occur Will Not Occur Not applicable.
X

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Ventilate area of leak or spill. Remove all sources of ignition. Use non-sparking tools and equipment. Clean-up personnel require protective clothing and respiratory protection from vapors. Contain and recover liquid when possible. Do not flush to sewer. Collect as hazardous waste and atomize in a suitable RCRA approved combustion chamber, or absorb with vermiculite, dry sand, earth or similar material for disposal as hazardous waste in RCRA approved facility.

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 incinerator or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) In the laboratory work in the ventilation hood. In an emergency, wear a NIOSH/MSHA-approved self-contained or chemical cartridge respirator.

Ventilation **Local Exhaust** Yes (recommended). **Special** No. **Mechanical (General)** Yes. **Other** Adequate to maintain below exposure limit.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Lab coat, goggles, eyes wash station, fire extinguisher, quick-drench facilities, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area away from fire hazards. Wash thoroughly after handling. Keep container tightly closed when not in use.

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. Avoid breathing vapor. Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision No. 5 Date 3/5/99 Approved Michael Raszeja Chemical Safety Coordinator MR

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. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	HEPTANE	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>3</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	3	Reactivity	0
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	1																	
Fire	3																	
Reactivity	0																	
Chemical Synonyms	n-Heptane, Normal Heptane																	
Formula	CH ₃ (CH ₂) ₅ CH ₃																	
Unit Size	up to 3.785 Lt.																	
C.A.S. No.	142-82-5																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Heptane	100%	See Section V.
DANGER! EXTREMELY FLAMMABLE! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION.		
AFFECTS CENTRAL NERVOUS SYSTEM.		

SECTION III PHYSICAL DATA

Melting Point (°F)	-90.6°C (-131.1°F)	Specific Gravity (H ₂ O = 1)	0.70
Boiling Point (°F)	93°-100°C (200°-212°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	50 mm Hg at 25°C (ASTM D 2879)	Evaporation Rate (Butyl Acetate =1)	5.8
Vapor Density (Air=1)	3.5		
Solubility in Water	Insoluble in water.		
Appearance & Odor	Clear, colorless liquid; mild gasoline-like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	-4°C (24.8°F) TCC	Flammable Limits in Air % by Volume	Lower 1.1%	Upper 6.7%
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Extinguisher Media Dry chemical (ABC); foam; carbon dioxide (CO₂).

SPECIAL FIREFIGHTING PROCEDURES Water spray may be used to keep fire exposed containers cool. In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 128)

UNUSUAL FIRE AND EXPLOSION HAZARDS **FIRE:** Extremely flammable, volatile, gives off invisible vapors. **EXPLOSION:** Above flash point, vapor-air mixtures are explosive within flammable noted above. Vapors can flow along surfaces to distant ignition source and flash back. This highly flammable liquid must be kept from sparks, open flame, hot surfaces and all sources of heat and ignition.

Autoignition Temperature: Approx. 215°C (419°F).

D.O.T. HEPTANES, 3, UN 1206, PG II

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