



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. HH 25  
Effective Date June 10, 1998

## SECTION V HEALTH HAZARD DATA

HH 25

**Threshold Limited Value** TWA: Hexane (n-Hexane) 50 ppm; 176 mg/m<sup>3</sup> (ACGIH 1992-93).  
RTECS No. MN9275000 Toxicity data: Ori-rat LD50: 28710 mg/kg,  
ipr-rat LDLo: 9100 mg/kg.

**Effects of Overexposure** **CAN CAUSE NERVOUS SYSTEM INJURY.** May be irritating to respiratory tract and in high concentration narcotic. Chronic repeated exposure may produce peripheral neurological changes.

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

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Static charge, excessive temperature or heat, spark, flame.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong oxidizing agents, acids, bases and selected amines.

**Hazardous Decomposition Products** Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide.

<b>Hazardous Polymerization</b>		<b>Conditions to Avoid</b>	Not applicable.
<b>May Occur</b>	<b>Will Not Occur</b>		
	X		

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Remove all sources of ignition. Wearing suitable protective clothing, absorb spilled material in vermiculite, sand, earth. Place in fiber carton. Incinerate. Wash spill area well 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 waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** In the laboratory, work in fume hood. If necessary wear a NIOSH/MSHA-approved organic vapor respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	<b>No.</b>
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	<b>Adequate to maintain below exposure limit.</b>

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

**Other Protective Equipment** Smock, apron, eye wash station, goggles, ventilation hood, fire extinguisher.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in cool, dry, well-ventilated place away from strong oxidizers and fire hazards. Do not breathe vapors or mist. 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.

Use with adequate ventilation. 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. 5	<b>Date</b> 6/10/98	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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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

<b>Product</b>	n-HEXANES	 <b>CHEMTREC</b> 800-424-9300 Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	<b>Health</b>	2
<b>Chemical Synonyms</b>	normal-Hexane		<b>Fire</b>	3
<b>Formula</b>	C <sub>6</sub> H <sub>14</sub>		<b>Reactivity</b>	0
<b>Unit Size</b>	up to 20 Lt.			
<b>C.A.S. No.</b>	110-54-3 (Hexane)			

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
n-Hexane	85%	See Section V.

**DANGER! EXTREMELY FLAMMABLE! HARMFUL OR FATAL**

**IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Solidif. -95 to -100°C (-138 to -148°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	0.668
<b>Boiling Point (°F)</b>	68.7°C (154°F)	<b>Percent Volatile by Volume (%)</b>	100%
<b>Vapor Pressure (mm Hg)</b>	100 @ 15.8°C	<b>Evaporation Rate (Ether = 1)</b>	Less than 1.
<b>Vapor Density (Air=1)</b>	3.0		
<b>Solubility in Water</b>	Insoluble in water.		
<b>Appearance &amp; Odor</b>	Colorless, very volatile liquid; faint, peculiar odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	-22°C (-7°F) (TOC)	<b>Flammable Limits in Air % by Volume</b>	<b>Lower</b>	<b>Upper</b>
			1.08%	8.0%
<b>Extinguisher Media</b>	Use dry chemical, foam, or carbon dioxide.			

**SPECIAL FIREFIGHTING PROCEDURES** Wear a NIOSH/MSHA-approved self-contained breathing apparatus. Water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from exposures.

Autoignition Temperature: 223°C (437°F)

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

**UNUSUAL FIRE AND EXPLOSION HAZARDS** Moderate explosion hazard when exposed to heat or flame. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. This material is extremely flammable and may ignite by heat, sparks, flame or static electricity. If container is not properly cooled, it may explode in heat or fire.

D.O.T. **HEXANES, 3, UN 1208, PG II**

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