



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. PP 835
Effective Date May 18, 1998

SECTION V HEALTH HAZARD DATA

PP 835

Threshold Limited Value TLV /TWA: SKIN 200 ppm; 492 mg/m³
STEL: 250 ppm; 614 mg/m³ (ACGIH 1992-93)

Effects of Overexposure Vapors may be irritating to skin, eyes and mucous membranes. Inhalation of vapors may cause headache, nausea, vomiting, dizziness, drowsiness, irritation of respiratory tract and loss of consciousness. Ingestion may cause nausea, vomiting, headache, dizziness, gastrointestinal irritation. Liquid may be irritating to skin and eyes. Prolonged skin contact may result in dermatitis. Eye contact may result in temporary corneal damage.

Emergency and First Aid Procedures **SKIN:** Flush with water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INHALATION:** Remove to fresh air and if not breathing, give artificial respiration and get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, do **NOT** induce vomiting, and call physician. Gastric lavage must be administered by qualified medical personnel. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizing agents, strong acids, halogens, nitric acid, sulfuric acid, active halogen compounds.

Hazardous Decomposition Products Thermal decomposition or burning yield carbon dioxide and/or carbon monoxide.

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 Eliminate sources of ignition. Provide ventilation. Take up with sand or other absorbent material. Place in container for proper disposal. Flush area with copious amounts of 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 accordance with local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. Work in fume hood. Use self-contained breathing apparatus if used in enclosed space.

Ventilation	Local Exhaust	In confined space.	Special	No.
	Mechanical (General)	Explosion-proof; yes.	Other	No.

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

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, standard flammable solvents area, away from oxidizing material, heat or open flame. 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.

Avoid contact with eyes, skin and clothing. 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. 6	Date 5/18/98	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employees 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	n-PROPYL ALCOHOL	 <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>1</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	3	Reactivity	1
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
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Chemical Synonyms	1-Propanol																	
Formula	CH ₃ CH ₂ CH ₂ OH																	
Unit Size	up to 4 Lt.																	
C.A.S. No.	71-23-8																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
n-Propyl alcohol	100%	See Section V.

WARNING! FLAMMABLE! MAY BE HARMFUL IF SWALLOWED OR INHALED.

CAUSES IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	-127°C (-195°F)	Specific Gravity (H₂O = 1)	0.8044 (20/20°C)
Boiling Point (°F)	97.8°C (207°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	14.9 @ 20°C	Evaporation Rate (Butyl Acetate =1)	Greater than 1.3
Vapor Density (Air=1)	2.07		
Solubility in Water	Miscible.		
Appearance & Odor	Clear, colorless liquid; alcohol-like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	23-25°C (74-77°F)	Flammable Limits in Air % by Volume	Lower 2.4 @ 100°F	Upper 13.7 @ 200°F
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Extinguisher Media Carbon dioxide (CO₂); dry chemical (ABC); alcohol foam.

SPECIAL FIREFIGHTING PROCEDURES

FLAMMABLE LIQUID!
Saturated air concentrations of this alcohol are within the explosive range. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 129)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Burns with a clear, almost invisible flame, especially hard to see in strong sunlight. Vapors heavier than air. Dangerous when exposed to heat or flame. Explosion hazard: high, when exposed to flame. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

Ignition Temperature: 775°F (412°C).

D.O.T. n-PROPANOL, 3, UN 1274, PG II

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