



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
	Stable	X Excessive temperature and heat.

Incompatibility (Materials to Avoid)	Strong oxidizing agents, strong acids, halogens, nitric acid, sulfuric acid, active halogen compounds.
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Hazardous Decomposition Products	Thermal decomposition or burning yield carbon dioxide and/or carbon monoxide.
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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	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.
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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 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.
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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. 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	n-PROPYL ALCOHOL
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

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1 0

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA
HAZARD RATING

LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

Health 1
Fire 3
Reactivity 1

HMIS *
3 4

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 (H ₂ O = 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