



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. PP 817
Effective Date November 16, 1998

SECTION V HEALTH HAZARD DATA

PP 817

Threshold Limited Value

None established by ACGIH or OSHA. Oral LD50 3300 mg/kg (rat).

Effects of Overexposure

INGESTION: Headache, nausea, vomiting, dizziness, drowsiness, weakness and incoordination may occur. **SKIN ABSORPTION:** May include same effects as described for ingestion. **EYE CONTACT:** Causes moderate to severe irritation, corneal injury may occur, redness and swelling of the conjunctiva. **INHALATION:** Causes respiratory tract irritation with coughing and possible chest pain. Dizziness, drowsiness may occur.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give two glasses of water to drink, induce vomiting and call physician. 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. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Do not distill to dryness. Avoid excessive temperatures or prolonged reflux, such as in batch distillations.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong alkali, acids and oxidizing agents.
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Hazardous Decomposition Products	Carbon monoxide and/or carbon dioxide.
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Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Ventilate area. Wearing proper protective clothing, soak up with absorbent material and place in a suitable container for proper disposal. Prevent run-off to sewers and water ways.
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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 incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal system.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)		Wear a NIOSH/MSHA approved breathing apparatus in high vapor concentrations.			
Ventilation	Local Exhaust	Recommended.	Special	No.	
	Mechanical (General)	Recommended.	Other	No.	
Protective Gloves		Rubber.		Eye Protection	Chemical safety goggles.

Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool place. Keep away from heat or flame. Wash thoroughly after handling. Containers greater than 5 gallons should be grounded.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid contact with skin, eyes 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. 2	Date 11/16/98	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	PROPYLENE GLYCOL MONOBUTYL ETHER	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 3 4
Chemical Synonyms	n-Butoxypropanol, Butyl Propasol Solvent	
Formula	C ₄ H ₉ OCH ₂ CH(CH ₃)OH	
Unit Size	up to 180 Kg.	
C.A.S. No.	5131-66-8	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
n-Butoxypropanol (mixed isomers)	100%	None established.
WARNING! COMBUSTIBLE LIQUID! HARMFUL IF INHALED OR SWALLOWED. VAPOR HARMFUL. CAUSES IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezing point -85°C (-121°F)	Specific Gravity (H ₂ O = 1)	0.874 - 0.881 @ 25°/25°C
Boiling Point (°F)	170.2°C (338.4°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	0.6 @ 20°C	Evaporation Rate (Butyl Acetate = 1)	0.08
Vapor Density (Air=1)	4.6		
Solubility in Water	6.4 g / 100 mL.		
Appearance & Odor	Transparent colorless liquid; mild characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	59°C (138°F) TCC ASTM D 56	Flammable Limits in Air % by Volume	Lower	Upper
			1.1 @ 80°C	8.4 @ 145°C
Extinguisher Media	<u>Large fires:</u> Alcohol-type or all-purpose-type foam. <u>Small fires:</u> Carbon dioxide or dry chemical.			

SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

This material may produce a floating fire hazard in extreme fire conditions.

D.O.T. Combustible liquid, n.o.s., (Propylene glycol monobutyl ether), Combustible liquid, NA 1993, PG III

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