



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. BB 250
Effective Date January 30, 1999

SECTION V HEALTH HAZARD DATA BB 250

Threshold Limited Value TWA-100 ppm; 303 mg/m³ STEL-150 ppm; 455 mg/m³ (ACGIH 1992-93). RTECS No. EO1925000 Toxicity data: Ori-rat LD50: 3500 mg/kg; ipr-mus LD50: 933 mg/kg.

Effects of Overexposure Most reported effects of TBA exposure are caused by its irritant properties. It is also regarded as a narcotic with potential for causing drowsiness from overexposure, nausea, vomiting and diarrhea. Long term exposure may effect the skin, liver, kidney or respiratory tract. Inhalation of vapors above the TLV may result in drowsiness, dizziness, headache and irritation of eyes, nose and throat.

Emergency and First Aid Procedures **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper 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. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Heat, sparks, open flame.
	Stable	X		

Incompatibility (Materials to Avoid) Strong mineral acids and strong oxidizers as liquid oxygen and chlorine.

Hazardous Decomposition Products Heat or contact with strong mineral acid may liberate highly volatile isobutylene vapors. Incomplete combustion may liberate carbon monoxide.

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 Wearing suitable protective clothing, eliminate all sources of ignition. Absorb in sand, earth or vermiculite. Carefully sweep up and place in proper container for disposal. Flush spill area with 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) Use an approved all purpose organic vapor canister mask for emergency clean up of spills. Work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

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

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

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Liquid will freeze at mild temp. (77°F). Thawing should be accomplished by transferring frozen container into area maintained above 77°F. Keep container tightly closed. Store away from sparks, reactive materials or 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 skin and eyes. Use with adequate ventilation. Do not take internally. Remove and wash contaminated clothing.

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

Revision No. 4	Date 1/30/99	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	TERT-BUTYL 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													
Health	1																	
Fire	3																	
Reactivity	1																	
Chemical Synonyms	2-Methyl-2-Propanol																	
Formula	(CH ₃) ₃ COH																	
Unit Size	up to 20 Lt.																	
C.A.S. No.	75-65-0																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
tert-Butyl Alcohol	100%	See Section V.
WARNING! FLAMMABLE! HARMFUL IF INHALED		
OR SWALLOWED. VAPOR HARMFUL. CAUSES		
SKIN AND EYE IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes 25°C (77°F)	Specific Gravity (H ₂ O = 1)	0.8 @ 39.2°F (4°C)
Boiling Point (°F)	83°C (181°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	35 mm @ 70°F (21°C)	Evaporation Rate (Butyl Acetate =1)	1.05
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Complete.		
Appearance & Odor	Colorless liquid; camphor like odor. Colorless solid below 77°F (25°C).		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	52°F (11°C) (ASTM) D-56	Flammable Limits in Air % by Volume (vapor)	Lower	Upper
			2.4%	8.0%

Extinguisher Media Alcohol foam; dry chemical (ABC); carbon dioxide (CO₂).

SPECIAL FIREFIGHTING PROCEDURES Do not use a solid stream of water since the stream will scatter and spread the fire. Use water spray to cool containers exposed to fire. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

Ignition temperature: 892°F (478°C).

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

TBA is a flammable liquid and its vapors can easily form explosive mixtures with air. Vapors are heavier than air and may travel along the ground and be ignited by sparks remote from origin of liquid. It may release highly volatile isobutylene when exposed to high temperature, resulting in pressure buildup and further release of flammable vapors. Can react vigorously with oxidizing materials.

D.O.T. BUTANOLS, 3, UN 1120, PG III

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