



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No.: BB0250
Effective Date: April 4, 2005

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Tert-Butyl Alcohol
Chemical Synonyms	2-Methyl-2-Propanol
Formula	(CH ₃) ₃ COH
Unit Size	up to 20 Lt.
C.A.S. No.	75-65-0

 NFPA HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4	CHEMTREC 800-424-9300 Day 585-226-6177	<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>	Health	1	Fire	3	Reactivity	1
	Health	1						
Fire	3							
Reactivity	1							
		HMIS*						

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 (CO ₂).		

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, UN1120, PG III

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

SECTION V HEALTH HAZARD DATA BB0250

Threshold Limited Value TWA-100 ppm (ACGIH 2001). RTECS No. EO1925000 Toxicity data: Orl-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. Target organs: Central nervous system, liver, kidneys.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **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	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
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

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 goggles.

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.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid contact with skin and eyes. Use with adequate ventilation. Do not take internally. Remove and wash contaminated clothing.

Revision No. 7	Date 04/04/05	Approved Michael Raszeja	Chemical Safety Coordinator MR
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