



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. BB 255  
Effective Date January 30, 1999

## SECTION V HEALTH HAZARD DATA

BB 255

### Threshold Limited Value

None established (ACGIH 1992-93). RTECS No. ES5425000 Toxicity data: oral-rat LD50: 2940 mg/Kg.; orl-mus LDLo: 500 mg/kg.

### Effects of Overexposure

**INHALATION:** Irritating to the upper respiratory tract. Can cause pulmonary edema. **INGESTION:** Causes severe irritation and damage to mouth, throat and stomach. **SKIN:** Can cause moderate injury, reddening and swelling. **EYES:** Can cause chemical burn - damage irreversible. Vapors are irritating.

### Emergency and First Aid Procedures

**SKIN:** Flush skin with plenty of water for 15 minutes while removing contaminated clothing and shoes. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give large quantities of water or milk to drink. Get medical attention. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

## SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Strong oxidizing agents, such as hydrogen peroxide, nitric acid, perchloric acid or chromium trioxide; strong alkalies, such as sodium hydroxide (caustic soda).
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Hazardous Decomposition Products	Thermal decomposition or burning may produce 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	Eliminate all sources of ignition. Absorb in sand, earth or vermiculite. Carefully sweep up and remove. Neutralize remaining acid residue on spill area with a dilute solution of sodium bicarbonate, then flush spill area with 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 an approved incinerator or contract with a licensed waste disposal service.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Use a NIOSH/MSHA-approved all purpose organic vapor canister mask for emergency clean up of spills. Work in a ventilation hood.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, face shield, lab coat, apron, vented hood, fire extinguisher, eye wash station and proper gloves.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, well-ventilated area away from fire hazards and oxidizing materials. Keep container tightly closed. Store in a sealed plastic bag. 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. Avoid breathing vapors. Use with adequate ventilation. Wash contaminated clothing before reuse. Discard contaminated leather shoes and clothing.
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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. 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-BUTYRIC ACID	 <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>3</td> </tr> <tr> <td>Fire</td> <td>2</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	3	Fire	2	Reactivity	0
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	3																	
Fire	2																	
Reactivity	0																	
Chemical Synonyms	Ethylacetic Acid, Butanoic Acid																	
Formula	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> COOH																	
Unit Size	up to 4 Lt.																	
C.A.S. No.	107-92-6																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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n-Butyric Acid	100%	None established.
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**WARNING! CORROSIVE! PENETRATING AND OBNOXIOUS ODOR.**

**KEEP CONTAINER TIGHTLY CLOSED. CAUSES IRRITATION**

**AND BURNS TO SKIN AND EYES. COMBUSTIBLE.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	-5.2°C (23°F)	Specific Gravity (H <sub>2</sub> O = 1)	0.959 at 20°/20°C
Boiling Point (°F)	163.5°C (327°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	0.43 mm at 20°C	Evaporation Rate (Butyl Ac. =1)	0.06
Vapor Density (Air=1)	3.04		
Solubility in Water	Completely soluble.		
Appearance & Odor	Clear, colorless mobile liquid with a strong clinging odor like that of rancid butter.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	161°F (72°C) cc	Flammable Limits in Air % by Volume	Lower 2%	Upper 10%
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Extinguisher Media	Dry chemical (ABC); "alcohol" foam; carbon dioxide (CO <sub>2</sub> ); water spray.
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SPECIAL FIREFIGHTING PROCEDURES	Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.
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Ignition temperature: 830°F (443°C).

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 153)

UNUSUAL FIRE AND EXPLOSION HAZARDS	Combustible liquid. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. Heating of this material will intensify the unpleasant, rancid odor in area involved.
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D.O.T.	BUTYRIC ACID, 8, UN 2820, PG III
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20