



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. BB 260  
Effective Date January 30, 1999

## SECTION V HEALTH HAZARD DATA

BB 260

**Threshold Limited Value** None established for this mixture (ACGIH 1992-93). For pure n-Butyric Acid: Toxicity data: oral-rat LD50: 2940 mg/Kg.; oral-mus LDLo: 500 mg/kg.

**Effects of Overexposure** Contact may cause irritation to eyes. Odor may be found to be unpleasant. Data not available for this dilution. Exercise all safety precautions when working with this material.

**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

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature and flame.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong oxidizing agents, such as hydrogen peroxide, nitric acid, perchloric acid, chromium trioxide; strong alkalies such as sodium hydroxide (caustic soda).

**Hazardous Decomposition Products** Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		Not applicable.
	<b>May Occur</b>	<b>Will Not Occur</b>	
		X	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Absorb in sand, earth, or vermiculite. Carefully sweep up and remove. Flush spill area with water. Neutralize remaining acid on spill area with dilute solution.

**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 system.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** Work in a ventilation hood or good ventilation should be sufficient. If needed, wear a NIOSH/MSHA-approved respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	Recommended.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	No.

<b>Protective Gloves</b>	Plastic or rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Goggles, smock, apron, ventilation hood, proper gloves, eye wash station, and fire extinguisher.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry, well-ventilated area. 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 eyes, skin and clothing. Avoid breathing vapors. Use with adequate ventilation. Wash contaminated clothing before reuse. Discard contaminated leather shoes and clothing.

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

<b>Revision</b> No. 4	<b>Date</b> 1/30/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> 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

<b>Product</b>	n-BUTYRIC ACID, 5% SOLUTION	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> HEALTH FIRE REACTIVITY 1 0 0
<b>Chemical Synonyms</b>	Ethylacetic Acid, Water Solution	
<b>Formula</b>	Mixture. See Section II.	
<b>Unit Size</b>	up to 4 Lt.	
<b>C.A.S. No.</b>	Mixture. See Section II.	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
n-Butyric Acid: (CAS No. 107-92-6)	5%	None established.
Water: (CAS No. 7732-18-5)	95%	None established.

**WARNING! PENETRATING AND OBNOXIOUS ODOR. KEEP CONTAINER TIGHTLY CLOSED.**

**MAY CAUSE BURNS TO EYES. VAPOR IRRITATING TO EYES AND RESPIRATORY TRACT.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Freezes approx. 0°C (32°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 1.0
<b>Boiling Point (°F)</b>	Approx. 100°C (212°F)	<b>Percent Volatile by Volume (%)</b>	100%
<b>Vapor Pressure (mm Hg)</b>	14 (water)	<b>Evaporation Rate (Water = 1)</b>	Slightly < 1
<b>Vapor Density (Air=1)</b>	0.7 (water)		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Clear, colorless liquid; unpleasant, rancid odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	For pure n-Butyric acid 72°C (161°F) cc	<b>Flammable Limits in Air % by Volume</b>	Lower	Upper
		n-Butyric Acid	2%	10%

**Extinguisher Media** At this dilution, should not be combustible. Use any media suitable for extinguishing supporting fire.

### SPECIAL FIREFIGHTING PROCEDURES

Heating of this solution may intensify the unpleasant rancid odor in area involved. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products.

D.O.T. **NON-REGULATED.**

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