



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 |
|-----------|----------|---|
| | Stable | X Excessive temperature, heat and flame. |

| 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 |
|--------------------------|----------------|---------------------|
| May Occur | Will Not Occur | Not applicable. |
| | 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. | | | |
| 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 | Goggles, face shield, lab coat, apron, vented hood, fire extinguisher, eye wash station and proper gloves. | | | | |

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 |
|-------------------|--|
| Chemical Synonyms | Ethylacetic Acid, Butanoic Acid |
| Formula | CH ₃ (CH ₂) ₂ COOH |
| Unit Size | up to 4 Lt. |
| C.A.S. No. | 107-92-6 |

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CHEMTREC
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NFPA
HAZARD RATING

LEAST SLIGHT MODERATE
0 1 2

Health
Fire
Reactivity

3
2
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HMIS *

HIGH EXTREME
3 4

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|--|------|-------------------|
| n-Butyric Acid | 100% | None established. |
| WARNING! CORROSIVE! PENETRATING AND OBNOXIOUS ODOR. | | |
| KEEP CONTAINER TIGHTLY CLOSED. CAUSES IRRITATION | | |
| AND BURNS TO SKIN AND EYES. COMBUSTIBLE. | | |

SECTION III PHYSICAL DATA

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|------------------------|--|---|-------------------|
| Melting Point (°F) | -5.2°C (23°F) | Specific Gravity (H ₂ 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 | Upper |
|------------------------------|---|--|-------|-------|
| | | | 2% | 10% |
| Extinguisher Media | Dry chemical (ABC); "alcohol" foam; carbon dioxide (CO ₂); water spray. | | | |

| 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.

D.O.T. BUTYRIC ACID, 8, UN 2820, PG III

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