



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. BB 165
Effective Date January 28, 1999

SECTION V HEALTH HAZARD DATA

BB 165

Threshold Limited Value

None established by ACGIH 1992-93.

Effects of Overexposure

Vapors intensely irritating to mucous membranes. May be irritating to skin and eyes. **INGESTION: MAY BE FATAL.** Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. If allergic 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. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting. Repeat until vomit fluid is clear. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

| Stability | Unstable | Conditions to Avoid | Excessive temperature and heat. |
|-----------|----------|---------------------|---------------------------------|
| | Stable | | |

| Incompatibility (Materials to Avoid) | Ammonia, alkalies, tannin, iron preparations, gelatin, bisulfides, salts of iron and arsenic, hydrogen peroxide, iodine, potassium permanganate. |
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| Hazardous Decomposition Products | Emits toxic fumes of formaldehyde on heating; explosive picric acid when dry. |
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| Hazardous Polymerization | Conditions to Avoid | Not applicable. |
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| | | |
| | X | |

SECTION VII SPILL OR LEAK PROCEDURES

| Steps to be taken in case material is released or spilled | Ventilate area. Absorb spill with an inert dry material, sweep up and place in a suitable container for proper disposal. Wash spill area with soap and 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. |
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Dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

| Respiration Protection (Specify Type) | In the laboratory, if good ventilation is not available, work in a ventilation hood or wear a NIOSH/MSHA-approved respirator with organic vapor canister. |
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| Ventilation | Local Exhaust | Recommended. | Special | No. |
|-------------|----------------------|--------------|---------|-----|
| | Mechanical (General) | Preferred. | Other | No. |

| Protective Gloves | Rubber. | Eye Protection | Chemical safety glasses. |
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| Other Protective Equipment | Goggles, apron, smock, proper gloves, ventilation hood and eye wash station. |
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SECTION IX SPECIAL PRECAUTIONS

| Precautions to be Taken in Handling & Storing | Store in a cool, well-ventilated place. Avoid contact with eyes, skin and clothing. 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. |
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Avoid breathing vapors or mist.
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 | 1/28/99 | 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 | BOUIN'S FIXATIVE |
|-------------------|--------------------------|
| Chemical Synonyms | Biological Fixative |
| Formula | Mixture. |
| Unit Size | up to 4 Lt. |
| C.A.S. No. | Mixture. See Section II. |

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| | CHEMTREC 800-424-9300 Day 716-226-6177 | Health | 3 |
| | | Fire | 2 |
| | | Reactivity | 2 |

NFPA HAZARD RATING

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|-------|--------|----------|------|---------|
| LEAST | SLIGHT | MODERATE | HIGH | EXTREME |
| 0 | 1 | 2 | 3 | 4 |

HMIS *

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|---------------------------------|-------|---------------------------------------|
| Water: (CAS No. 7732-18-5) | 84.5% | None established. |
| Acetic Acid: (CAS No. 64-19-7) | 5% | 25 mg/m ³ (air). |
| Picric Acid: (CAS No. 88-89-1) | 1% | 0.1 mg/m ³ (skin). |
| Formaldehyde: (CAS No. 50-00-0) | 9.25% | TWA: 2 ppm (air); 3 mg/m ³ |

WARNING! MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MAY BE FLAMMABLE WHEN DRY. IRRITANT.

SECTION III PHYSICAL DATA

| Melting Point (°F) | Freezes approx. 0°C (32°F) | Specific Gravity (H ₂ O = 1) | Approx. 1.11 |
|------------------------|-------------------------------------|---|-----------------|
| Boiling Point (°F) | Approx. 98°C (208°F) | Percent Volatile by Volume (%) | 99% |
| Vapor Pressure (mm Hg) | 1.0 (Formaldehyde). | Evaporation Rate (Ether = 1) | Greater than 1. |
| Vapor Density (Air=1) | 1.01 (vapor over solution). | | |
| Solubility in Water | Complete. | | |
| Appearance & Odor | Clear, yellow liquid; pungent odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| Flash Point (Method Used) | Data not listed. | Flammable Limits in Air % by Volume | Unknown | Lower | Upper |
|---------------------------|------------------|-------------------------------------|---------|-------|-------|
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| Extinguisher Media | Use any media suitable for extinguishing supporting fire. |
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SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated, emits toxic fumes of formaldehyde. Picric acid explodes when rapidly heated or by percussion.

D.O.T. Toxic liquids, organic, n.o.s., (Formaldehyde), 6.1, UN 2810, PG III

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