



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. PP 640
Effective Date April 19, 1999

SECTION V HEALTH HAZARD DATA

PP 640

Threshold Limited Value None established, but TWA value for sulfur dioxide gas is 2 ppm and 5 mg/m³ (air) (ACGIH 1992-93).

Effects of Overexposure **INHALATION:** Dust or mist may irritate respiratory tract. **INGESTION:** May irritate gastrointestinal tract. Very large doses cause violent colic, diarrhea, depression and death. May cause severe allergic reaction in some asthmatics. **SKIN:** Repeated or prolonged contact with dust may cause irritation. Contact with solution will irritate. **EYES:** Contact may irritate or cause burns.

Emergency and First Aid Procedures **EYES:** Immediately flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get prompt medical attention. **SKIN:** Promptly flush with plenty of soap and water. **INHALATION:** Promptly remove to fresh air. If illness develops, get medical attention. **INGESTION:** If swallowed, if conscious, give plenty of water or milk to drink. Induce vomiting and get medical attention. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid) Avoid contact with oxidizing agents and acids. On exposure to air, it loses some sulfur dioxide (SO₂) and is gradually oxidized to sulfate.

Hazardous Decomposition Products Sulfur dioxide.

| | | | |
|---------------------------------|----------------------------|-----------------------|-----------------|
| 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 Sweep up, place in suitable container for reclamation or disposal. Wash spill area with soap and 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 chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory use. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.

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|--------------------|-----------------------------|---------------------|----------------|-----|
| Ventilation | Local Exhaust | Recommended. | Special | No. |
| | Mechanical (General) | Recommended. | Other | No. |

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry, well-ventilated place. 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 skin, eyes and mucous membranes. Avoid breathing dust. Use with adequate ventilation. Remove and wash contaminated clothing.

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

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|-----------------------|---------------------|---------------------------------|---------------------------------------|
| Revision No. 4 | Date 4/19/99 | 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 | POTASSIUM METABISULFITE | CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 0 1 2 3 4 |
| Chemical Synonyms | Potassium Pyrosulfite | |
| Formula | K ₂ S ₂ O ₅ | |
| Unit Size | up to 2.5 Kg. | |
| C.A.S. No. | 16731-55-8 | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|---|------|----------------|
| Potassium Metabisulfite | 100% | See Section V. |
| WARNING! HARMFUL IF SWALLOWED. IRRITANT | | |
| TO EYES, SKIN, THROAT. LIBERATES SULFUR DIOXIDE IN CONTACT WITH WATER. | | |

SECTION III PHYSICAL DATA

| | | | |
|------------------------|--|---|-----|
| Melting Point (°F) | Decomposes at 190°C (374°F) | Specific Gravity (H ₂ O = 1) | 2.3 |
| Boiling Point (°F) | Decomposes. | Percent Volatile by Volume (%) | N/A |
| Vapor Pressure (mm Hg) | Negligible as solid. | Evaporation Rate (=1) | N/A |
| Vapor Density (Air=1) | Approx. 3.6 | | |
| Solubility in Water | 72 grams per 100 mL. water at 20°C. | | |
| Appearance & Odor | White crystalline powder; sulfur dioxide odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | | | | | |
|----------------------------------|---|--|-----|--------------|--------------|
| Flash Point (Method Used) | Non-flammable. | Flammable Limits in Air % by Volume | N/A | Lower | Upper |
| Extinguisher Media | Water fog; foam; carbon dioxide (CO ₂); dry chemical. | | | | |

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. A full face mask suitable for sulfur dioxide gas should be available.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dangerous when heated to decomposition, they emit highly toxic fumes of sulfur dioxide; they will react with water, steam or acids to produce a toxic and corrosive material.

D.O.T. NON-REGULATED.

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