



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. MM 465
Effective Date September 25, 1998

SECTION V HEALTH HAZARD DATA

MM 465

Threshold Limited Value

None established (ACGIH 1992-93).

Effects of Overexposure

May be harmful by inhalation, ingestion, or skin absorption. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. 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. If irritation develops, get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink and induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If ill effects develop, get medical attention.

SECTION VI REACTIVITY DATA

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|-----------|----------|---|---------------------|---|
| Stability | Unstable | | Conditions to Avoid | Protect from light. Excessive temperature or heat. |
| | Stable | X | | |

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| Incompatibility (Materials to Avoid) | Strong oxidizers and reducing agents. |
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| Hazardous Decomposition Products | Thermal decomposition or burning may produce carbon dioxide and/or carbon monoxide, NO _x , SO _x . |
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| Hazardous Polymerization | Conditions to Avoid | | Not applicable. |
| | May Occur | Will Not Occur | |
| | | X | |

SECTION VII SPILL OR LEAK PROCEDURES

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| Steps to be taken in case material is released or spilled | Recover for use if not contaminated. Wearing suitable protective clothing, carefully sweep material onto paper, avoid making dust. Place in fiber carton and incinerate. Wash spill area well 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 an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal system.

SECTION VIII SPECIAL PROTECTION INFORMATION

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| Respiration Protection (Specify Type) | None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator. |
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|-------------|----------------------|--------------|---------|-----|
| Ventilation | Local Exhaust | Recommended. | Special | No. |
| | Mechanical (General) | Recommended. | Other | No. |

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

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| Precautions to be Taken in Handling & Storing | Store in a cool, dry place away from oxidizing materials. Wash thoroughly after handling. |
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Keep container tightly closed when not in use.

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| Other Precautions | Read label on container before using. Do not wear contact lenses when working with chemicals. |
| | Use with adequate ventilation. Avoid dust generation. 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 9/25/98 | Approved Michael Raszeja | Chemical Safety Coordinator MR |
|----------------|--------------|--------------------------|--------------------------------|

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 | METHYL ORANGE |
| Chemical Synonyms | C.I. No. 13025 |
| Formula | C ₁₄ H ₁₄ N ₃ NaO ₃ S |
| Unit Size | up to 2.5 Kg. |
| C.A.S. No. | 547-58-0 |

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|---|------------|---|
| CHEMTREC 800-424-9300 Day 716-226-6177 | Health | 2 |
| | Fire | 0 |
| NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 | Reactivity | 0 |
| | HMIS * | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|-----------------------------|-----|-------------------|
| Methyl Orange, pH Indicator | 93% | None established. |

WARNING! MAY BE HARMFUL IF SWALLOWED, INHALED OR

ABSORBED THROUGH SKIN. CAUSES IRRITATION.

SECTION III PHYSICAL DATA

| | | | |
|------------------------|---|---|-----------------|
| Melting Point (°F) | Decomposes. | Specific Gravity (H ₂ O = 1) | Approx. 1.0 |
| Boiling Point (°F) | Decomposes. | Percent Volatile by Volume (%) | Negligible. |
| Vapor Pressure (mm Hg) | Negligible. | Evaporation Rate (=1) | Not applicable. |
| Vapor Density (Air=1) | 11.3 | | |
| Solubility in Water | 0.2 grams per 100 mL. water at 20°C. | | |
| Appearance & Odor | Brown-orange crystalline powder; no odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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|---------------------------|--------------------------|-------------------------------------|----|-------|-------|
| Flash Point (Method Used) | Non-volatile solid (NA). | Flammable Limits in Air % by Volume | NA | Lower | Upper |
| | | | | ----- | ----- |

Extinguisher Media Water spray; carbon dioxide (CO₂); dry chemical (ABC).

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, emits toxic fumes of oxides of nitrogen (NO_x) and sulfur (SO_x); can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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