



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 448
Effective Date May 1, 1998

SECTION V HEALTH HAZARD DATA

CC 448

Threshold Limited Value

None established.

Effects of Overexposure

May be harmful by inhalation, ingestion, or skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. 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. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

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

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| Incompatibility (Materials to Avoid) | Strong oxidizers. |
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| Hazardous Decomposition Products | When heated to decomposition, emits toxic fumes of oxides of sulfur (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 | 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

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| Respiration Protection (Specify Type) | None should be needed in normal laboratory handling. If dusty conditions prevail, work in a 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. |

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|-------------------|---------|----------------|--------------------------|
| Protective Gloves | Rubber. | Eye Protection | Chemical safety glasses. |
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| Other Protective Equipment | Goggles, smock, apron, proper gloves, eye wash station, and a 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 place. Wash thoroughly after handling. |
| 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. |
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Avoid contact with skin, eyes and clothing. 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 5/01/98 | 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 | CRESOL RED, pH INDICATOR | CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 1 2 3 4 |
| Chemical Synonyms | o-Cresolsulfonephthalein | |
| Formula | a) C ₂₁ H ₁₈ O ₅ S b) C ₂₁ H ₁₇ O ₅ SNa | |
| Unit Size | up to 500 grams. | |
| C.A.S. No. | a) 1733-12-6 b) 62625-29-0 | |

SECTION II INGREDIENTS OF MIXTURES

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| Principal Component(s) | % | TLV Units |
| Cresol Red pH Indicator | 100% | None established. |
| WARNING! MAY BE HARMFUL IF SWALLOWED, INHALED, OR | | |
| ABSORBED THROUGH SKIN. CAUSES IRRITATION. | | |

SECTION III PHYSICAL DATA

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|------------------------|--|---|----------------------|
| Melting Point (°F) | Unknown. | Specific Gravity (H ₂ O = 1) | Unknown. |
| Boiling Point (°F) | Decomposes. | Percent Volatile by Volume (%) | Negligible as solid. |
| Vapor Pressure (mm Hg) | Negligible as solid. | Evaporation Rate (≈1) | N/A |
| Vapor Density (Air=1) | Unknown. | | |
| Solubility in Water | Very soluble. | | |
| Appearance & Odor | Reddish-brown crystalline powder; no odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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|---------------------------|--|-------------------------------------|---------|-------|-------|
| Flash Point (Method Used) | Not applicable. | Flammable Limits in Air % by Volume | Unknown | Lower | Upper |
| Extinguisher Media | Carbon dioxide (CO ₂); dry chemical (ABC); alcohol foam. | | | | |

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, emits toxic fumes of oxides of 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