



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. SS 532
Effective Date November 20, 1998

SECTION V HEALTH HAZARD DATA

SS 532

Threshold Limited Value

None established.

Effects of Overexposure

Low level of toxicity although any chemical 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. 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. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **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 water to drink and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

| Stability | Unstable | Conditions to Avoid | Do not mix with hot or concentrated acids. Avoid exposure to sunlight. |
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| | Stable | X | |

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| Incompatibility (Materials to Avoid) | Mineral acids. |
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| Hazardous Decomposition Products | Hydrogen cyanide, Carbon monoxide and Ammonia gas. |
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| Hazardous Polymerization | | Conditions to Avoid |
|--------------------------|----------------|---------------------|
| May Occur | Will Not Occur | Not applicable. |
| | X | |

SECTION VII SPILL OR LEAK PROCEDURES

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| Steps to be taken in case material is released or spilled | Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Flush spill area with water. Do not allow wash water to pollute water ways and streams. |
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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. Waste ferrocyanides in streams and lakes should not exceed 2 ppm because irradiated solutions become toxic to fish. |
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SECTION VIII SPECIAL PROTECTION INFORMATION

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|---------------------------------------|---|----------------|--------------------------|
| Respiration Protection (Specify Type) | For normal laboratory handling, wear a NIOSH/MSHA-approved dust mask. | | |
| Ventilation | Local Exhaust | Recommended. | Special |
| | Mechanical (General) | Recommended. | Other |
| Protective Gloves | Rubber. | Eye Protection | Chemical safety glasses. |

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| Other Protective Equipment | Lab coat, 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 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. Do not breathe dust. Remove and wash contaminated clothing. |
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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|--|---------------|--------------------------|-----------------------------|----|
| Revision No. 2 | Date 11/20/98 | 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

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| Product | SODIUM FERROCYANIDE | CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 3 4 |
| Chemical Synonyms | Yellow Prussiate of Soda | |
| Formula | C ₆ FeN ₆ Na ₄ •10H ₂ O | |
| Unit Size | up to 180 Kg. | |
| C.A.S. No. | 13601-19-9 | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|----------------------------------|------|-------------------|
| Sodium Ferrocyanide, Decahydrate | >97% | None established. |

CAUTION! LOW HEALTH HAZARD FOR

USUAL LABORATORY HANDLING.

SECTION III PHYSICAL DATA

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| Melting Point (°F) | Not applicable. | Specific Gravity (H ₂ O = 1) | 1.458 |
| Boiling Point (°F) | Decomposes @ 435°C (814°F) | Percent Volatile by Volume (%) | Not applicable. |
| Vapor Pressure (mm Hg) | Not applicable. | Evaporation Rate (≈1) | Not applicable. |
| Vapor Density (Air=1) | Not applicable. | | |
| Solubility in Water | Calculated as the anhydrous salt @ 25°C: 17.6% | | |
| Appearance & Odor | Pale yellow monoclinic slightly efflorescent crystals. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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|---------------------------|---|-------------------------------------|----|-------|-------|
| Flash Point (Method Used) | Not applicable. | Flammable Limits in Air % by Volume | NA | Lower | Upper |
| Extinguisher Media | Use any media suitable for extinguishing supporting fire. | | | | |

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear suitable protective clothing and a NIOSH/MSHA-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Under extreme conditions protect against possible release of Hydrogen cyanide, Carbon monoxide and Ammonia gas.

D.O.T. NON-REGULATED.

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