



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. PP 800
Effective Date January 22, 1999

SECTION V HEALTH HAZARD DATA

PP 800

Threshold Limited Value

None established for this solution. (ACGIH 1992-93).

Effects of Overexposure

Due to the low concentration of Potassium Thiocyanate in this water solution the hazard resulting in handling is very low. Large overdoses induce vomiting, extreme cerebral excitement, delirium, convulsions and spasticity of the extensor muscles.

Emergency and First Aid Procedures

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. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION AS MIST:** Remove to fresh air.

SECTION VI REACTIVITY DATA

| Stability | Unstable | Conditions to Avoid | Excessive temperature to cause evaporation. Avoid contact with strong acids. |
|-----------|----------|---------------------|--|
| | Stable | | |

| Incompatibility (Materials to Avoid) | Strong oxidizers. Violent reactions have occurred when mixed with chlorate, nitrates and peroxides. |
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| Hazardous Decomposition Products | Emits highly toxic fumes of cyanides upon decomposition. |
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| Hazardous Polymerization | | Conditions to Avoid |
|--------------------------|----------------|---------------------|
| May Occur | Will Not Occur | Not applicable. |
| | X | |

SECTION VII SPILL OR LEAK PROCEDURES

| Steps to be taken in case material is released or spilled | Absorb spill in vermiculite, sand, earth, paper towel 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. Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal system. |
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SECTION VIII SPECIAL PROTECTION INFORMATION

| Respiration Protection (Specify Type) | None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator. | | | |
|---------------------------------------|--|----------------|--------------------------|-----|
| Ventilation | Local Exhaust | Not required. | Special | No. |
| | Mechanical (General) | Not required. | Other | No. |
| Protective Gloves | Rubber | Eye Protection | Chemical safety glasses. | |

| Other Protective Equipment | Lab coat, apron, eye wash station, proper gloves. |
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SECTION IX SPECIAL PRECAUTIONS

| Precautions to be Taken in Handling & Storing | Store in a cool place. Wash thoroughly after handling. Store away from acids and acid fumes. |
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|---|--|

| Other Precautions | Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid contact with skin and eyes. 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.

| Revision | No. 1 | Date | 1/22/99 | Approved | Michael Raszeja | Chemical Safety Coordinator | MR |
|----------|-------|------|---------|----------|-----------------|-----------------------------|----|
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SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

| Product | POTASSIUM THIOCYANATE 0.002 M SOL'N |
|-------------------|---------------------------------------|
| Chemical Synonyms | Potassium Thiocyanate, Water Solution |
| Formula | Mixture |
| Unit Size | up to 4 Lt. |
| C.A.S. No. | Mixture |

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA
HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

| Health | 1 |
|------------|---|
| Fire | 0 |
| Reactivity | 0 |

HMIS *

| | |
|---|---|
| 3 | 4 |
|---|---|

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|---|--------|-------------------|
| Potassium Thiocyanate: (CAS No. 333-20-0) | 0.019% | None established. |
| Water: (CAS No. 7732-18-5) | 99.98% | None established. |

CAUTION! MAY BE HARMFUL IF SWALLOWED. CAUSES IRRITATION

TO SKIN, EYES AND MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

| | | | |
|------------------------|---|---|-------------|
| Melting Point (°F) | Freezes approx. 0°C (32°F) | Specific Gravity (H ₂ O = 1) | Approx. 1.0 |
| Boiling Point (°F) | Approx. 100°C (212°F) | Percent Volatile by Volume (%) | 99.98% |
| Vapor Pressure (mm Hg) | 14 (water). | Evaporation Rate (Water = 1) | < 1 |
| Vapor Density (Air=1) | 0.7 (water). | | |
| Solubility in Water | Complete. | | |
| Appearance & Odor | Clear, water white liquid, water solution; no 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 | Use any media suitable for extinguishing supporting fire. | | | | |

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. NON-REGULATED.

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