



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. PP 801  
Effective Date April 21, 1999

## SECTION V HEALTH HAZARD DATA

PP 801

### 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. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention.

## SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Strong oxidizers. Violent reactions have occurred when mixed with chlorate, nitrates and peroxides.
--------------------------------------	---

Hazardous Decomposition Products	Emits highly toxic fumes of cyanides upon decomposition.
----------------------------------	--

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. 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 an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal system.

## 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.
----------------------------	---

## 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.
---	---

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.

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

Revision	No. 2	Date	4/21/99	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	POTASSIUM THIOCYANATE 0.1 MOLAR SOL'N
Chemical Synonyms	Potassium Thiocyanate, Water Solution
Formula	Mixture
Unit Size	up to 3.785 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 \*

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Thiocyanate: (CAS No. 333-20-0)	0.97%	None established.
Water: (CAS No. 7732-18-5)	99.03%	None established.

**WARNING! 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 <sub>2</sub> O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	99.03%
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