

Pentair Pool Products
P. O. Box 4127
El Monte, CA 91731

State of California DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

MATERIAL SAFETY DATA SHEET

Rainbow Lifeguard
Trade Name: **Solution #4**

***** I. PRODUCT IDENTIFICATION *****

Trade Name (as labeled): Solution 4 Chlorine Neutralizer
Chemical Name, Common Names: Thiosulfate Solution

Manufacturer's Name: Pentair Pool Products
Address: 12202 East Garvey Ave, El Monte, CA 91732
Emergency Spill/MSDS Phone: (800) 451-8346
Business Phone: 626-443-6114

Date Prepared: 01/26/05
Name of Preparer: John Lobato, Jr., B.Sc.

***** II. HAZARDOUS INGREDIENTS *****

Chemical Name	CAS Numbers	Percent*	Exposure Limits in Air ACGIH (TLV)	OSHA (PEL)
Sodium Thiosulfate	7772-98-7	1-5	N/A	N/A
Glutaraldehyde	111-30-8	< 0.1	0.2 ppm	0.2 ppm

***** III. PHYSICAL PROPERTIES *****

Vapor Density (air = 1): N/A
Specific Gravity: 1
Solubility in Water: Complete
Vapor Pressure, mm Hg at 20°C: 18
Evaporation rate (butyl acetate = 1): N/A
Appearance and odor: Clear colorless liquid, no odor

Melting Point or range, °F N/A
Boiling Point or range, °F 212

HOW TO DETECT THIS SUBSTANCE: (Warning properties of substance as a gas, vapor, dust, or mist). This product contains a small quantity of sodium thiosulfate, which is a substance having low toxicity. Up to 12 grams of sodium thiosulfate can be taken daily by mouth with no ill effects except catharsis. Under normal use conditions this product does not produce a hazardous gas, vapor dust or mist.

***** IV. FIRE AND EXPLOSION *****

Flash Point, °F (give method): N/A
Autoignition temperature, °F: N/A
Flammable limits in air, volume %: Lower: N/A Upper: N/A
Fire extinguishing materials: N/A
 Water Spray Carbon Dioxide Other:
 Foam Dry Chemical

Special Fire Fighting Procedures: N/A
Unusual Fire and Explosion Hazards: When heated to decomposition, toxic sulfur oxide fumes may be emitted.

***** V. HEALTH HAZARD INFORMATION *****

Inhaled: N/A
Contact with Skin or Eyes: May cause irritation
Absorbed through skin: N/A
Swallowed: Intake of large doses may result in catharsis. It is unlikely that sufficient quantities to produce harmful effects would be swallowed.

HEALTH EFFECTS OR RISKS FROM EXPOSURE. Explain in lay terms. Attach extra page if more space is needed.

Acute: Intake of large doses may result in purging of the bowels
Chronic: No ill effects known

FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Flush with water for at least 15 minutes. Call physician. Skin Contact: Wash with soap and water
Inhaled: N/A Swallowed: Call Physician

SUSPECTED CANCER AGENT?

No: This product's ingredients are not found in the lists below:
 Yes: Federal OSHA NTP IARC CAL/OSHA (see note).*

*Note: California employers using CAL/OSHA-regulated carcinogens must register with CAL/OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None Known
RECOMMENDATIONS TO PHYSICIAN*: N/A

***** VI. REACTIVITY DATA

Stability: X Stable __ Unstable
Conditions to Avoid: N/A
Incompatibility (materials to avoid): N/A
Hazardous Decomposition Products (including combustion products):
If heated to decomposition toxic sulfur oxides are emitted.
Hazardous Polymerization: __ May occur X Will not occur
Conditions to Avoid: N/A

***** VII. SPILL, LEAK AND DISPOSAL PROCEDURES *****

Spill response procedures (include employee protection measures): Flush with water. Avoid skin contact
Preparing wastes for disposal (container types, neutralization, etc.): N/A
Note: Dispose of all wastes in accordance with federal, state and local regulations.

***** VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: General dilution ventilation is generally adequate.

Respiratory protection: Usually not required under normal use.

Eye protection (type): Safety glasses or goggles

Gloves (specify material): Rubber gloves

Other clothing and equipment: Apron or lab coat

Work Practices, hygienic practices: Use normal hygienic practices to avoid skin contact.

Other Handling and Storage Requirements: Store in sealed containers

Protective measures during maintenance of contaminated equipment: N/A

***** IX. LABELING

Labeling (precautionary statements)*: N/A

D.O.T. Label*: N/A

Hazardous Material Identification System (HMIS)

Solution #4 Health=1 Flammability=0 Reactivity=0 Personal Protection=C

HMIS Ratings Key:

0 = Minimal Hazard 1 = Slight Hazard

2 = Moderate Hazard 3 = Serious Hazard

4 = Severe Hazard

Personal Protection: C = Gloves, Glasses, and Apron or Lab Coat

Disclaimer of Express and Implied Warranties:

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