

**Pentair Pool Products**  
**P. O. Box 4127**  
**El Monte, CA 91734**

**MATERIAL SAFETY DATA SHEET**

Rainbow Lifeguard

Trade Name: OTO Solution or Solution #1 Chlorine Indicator

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

**Trade Name (as labeled): OTO Solution, or Solution #1** (was Solution A)

Chemical Name, Common Names: ortho-Tolidine dihydrochloride in 3.75% Hydrochloric Acid

Manufacturer's Name: Pentair Pool Products

Address: 12202 East Garvey Avenue, El Monte, CA 91731

Emergency Spill/MSDS Phone: 800-451-8346      Date Prepared: 06/24/05

Business Phone: 626-443-6114      Name of Preparer: John M. Lobato, Jr., B.S.

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

<u>Chemical Name</u>	<u>CAS Numbers</u>	<u>Percent*</u>	<u>Exposure limits in Air</u>	
			<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>
Hydrochloric Acid	#7647-01-0	3.75	5 ppm	5 ppm
o-Tolidine Dihydrochloride	#612-82-81	<0.1	2 ppm	N/A

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

Vapor Density (air = 1): N/A      Melting Point or range, °F N/A  
Specific Gravity: 1      Boiling Point or range, °F 212  
Solubility in Water: Complete      pH = 0.1  
Vapor Pressure, mm Hg at 20°C 18  
Evaporation rate (butyl acetate = 1): N/A  
Appearance and odor: Clear colorless liquid, no odor

\*\*\*\*\* 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: N/A

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

Inhaled: N/A  
Contact with Skin or Eyes: Will cause irritation  
Absorbed through skin: The o-Tolidine in this product can be readily absorbed through the skin.  
Swallowed: Irritation of mouth, throat and intestinal track

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

Acute: Corrosive damage to eyes and skin upon contact

Chronic: Repeated skin contact may result in dermatitis. The o-Tolidine in this product is a suspected carcinogen and can be readily absorbed through the skin:

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FIRST AID: EMERGENCY PROCEDURES

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

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SUSPECTED CANCER AGENT?

\_ No: This product's ingredients are not found in the lists below.

X Yes: \_ Federal OSHA X NTP X IARC \_ CAL/OSHA (see note).\*

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

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

\*\*\*\*\* VI. REACTIVITY DATA \*\*\*\*\*

Stability: X Stable    Unstable  
Conditions to Avoid: Heating will result in liberation of toxic hydrogen chloride fumes.

Incompatibility (materials to avoid) N/A

Hazardous Decomposition Products (including combustion products): N/A

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 of this product

Eye protection (type): Safety goggles

Gloves (specify material): Rubber gloves

Other clothing and equipment: Apron or lab coat

Work Practices, hygienic practices: Do not allow contact with eyes or skin

Other Handling and Storage Requirements: Keep away from heat. Store in sealed container.

Protective measures during maintenance of contaminated equipment: N/A

\*\*\*\*\* IX. LABELING \*\*\*\*\*

Labeling (precautionary statements)\*: N/A

**D.O.T. Label\*: Corrosive**

**OTO; Solution #1 HMIS RATINGS:**

**Health=4    Flammability=0    Reactivity=0    Personal Protection=C**

**HMIS CODES:**

1=Slight Hazard

2=Moderate Hazard

3=Serious Hazard

4=Severe Hazard

**HMIS PERSONAL PROTECTION CODES:**

**C = Safety Glasses, Gloves Apron or Lab Coat**

Disclaimer of Express and Implied Warranties:

The foregoing data has been compiled from sources that the company, in good faith, believes to be dependable and accurate while being reliable to our best knowledge and belief. Unfortunately, the company cannot, and will not, make warranties or responsibilities regarding the accuracy or completeness of the data, and assumes no liability for damages relating thereto or for advising the reader regarding the protection of employees or others. Users should consider making their own responsible tests to determine the application of this data regarding its suitable specific use.