



# MSDS

## MATERIAL SAFETY DATA SHEET

Pentair Water Pool and Spa, 1620 Hawkins Avenue, Sanford, NC 27330  
Telephone # For Information: 800-831-7133

24 HOUR EMERGENCY NUMBER (CHEMTEL): USA, Canada, Puerto Rico 800-255-3924;  
Outside North American Continent 01-813-248-0585 (Call Collect If Necessary)

### 1. Product Identification

**Manufactured By:** LaMotte Company  
802 Washington Avenue  
Chestertown, MD 21620

**Product Code:** R161056

**Product Description:** Solution OTO 1  
Chlorine/Bromine Test

### 2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	612-82-8 Ortho-tolidine dihydrochloride hydrate (3,3'-Dimethylbenzidine dihydrochloride)	<0.2	None Established	None Established
Yes	7647-01-0 Hydrochloric Acid	5.14	Ceiling 5 ppm (7mg/m <sup>3</sup> )	Ceiling 2 ppm
No	7732-18-5 Water	to 100	None Established	None Established

This OTO solution has been manufactured by Poolmaster, Inc. This MSDS has been created using information supplied by Poolmaster Inc. Sacramento, CA. They can be contacted toll-free at 1-800-854-1776 (local 916-567-9800), or via fax at 918-567-9880.

### 3. Hazards Overview

**Primary Route Of Entry:** Eye Skin

May cause burns. Harmful if swallowed, inhaled, or absorbed through skin.

#### HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 3      Flammability: 0      Reactivity: 0

**Carcinogenicity:** Yes: IARC

#### Other Health Related Comments:

Ortho-tolidine dihydrochloride hydrate is listed as a Group 2B carcinogen with IARC. (Group 2B=Possibly carcinogenic to humans).  
WARNING: This product contains, Ortho-tolidine dihydrochloride, a chemical known to the State of California to cause cancer.



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## **8. Exposure Controls/Personal Protection**

### **Ventilation**

Normal

A system of local/general exhaust is recommended to keep employee exposures as low as possible.

### **Protection When Handling**

Eye Protection Gloves labcoat

**Work/Hygenic Practices:** Wash after handling. Avoid contact with eyes and skin. Do not ingest or inhale.

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## **9. Physical & Chemical Properties**

**Appearance:** Clear, colorless water-like solution

**Solubility In Water:** Soluble

**Odor:** odorless

**pH:** no information found

**Vapor Density:** no information found

**Vapor Pressure:** no information found

**Boiling Point:** 212°F

**Melting Point:** no information found

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## **10. Stability & Reactivity**

**Stable:** Yes

**Conditions To Avoid:** Heat, Direct Sunlight, Incompatibles

**Incompatibility (Materials To Avoid):** Strong oxidizers

**Hazardous Decomposition Products:** Hydrochloric acid/amine fumes on decomposition

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## **11. Toxicological Information**

**Target Organs:** Eyes Skin

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## 12. Ecological Information

No information found.

## 13. Disposal Considerations

Dispose according to federal, state, and local regulations.

## 15. Regulatory Information

### Chemical Inventory Status

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	612-82-8 O-Tolidine dihydrochloride	Yes	Yes	Yes	No	No	No
Yes	7647-01-0 Hydrochloric Acid	Yes	Yes	Yes	No	Yes	Yes
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

### Federal, State, & International Regulations

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
612-82-8 O-Tolidine dihydrochloride	No	No	Yes	No	No	No	No
7647-01-0 Hydrochloric Acid	5000	500	Yes	No	5000	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

**Product Code:** R161056

**Product Description:** Solution OTO 1  
Chlorine/Bromine Test

Ingredient	--- SARA 311/312 --- Hazard Categories					----- Australia -----		This MSDS Is WHMIS Compliant
	Acute	Chronic	Fire	Pressure	Reactivity	Hazchem Code	Poison Schedule	
612-82-8 O-Tolidine dihydrochloride	Yes	No	Yes	No	No	None Allocated	None Allocated	
7647-01-0 Hydrochloric Acid	Yes	Yes	No	No	No	2R	None Allocated	
7732-18-5 Distilled Water	No	No	No	No	No	None Allocated	None Allocated	
<b>product R161056 as a whole</b>	Yes	No	No	No	No	None Allocated	None Allocated	Yes

### **16. Other Information**

Keep out of reach of children.

WARNING: This product contains a chemical known to the State of California to cause cancer.

**Prepared By:**

**Revised:** 3/15/2010



# MSDS

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### 1. Product Identification

**Product Code:** R161126

**Product Description:** pH Phenol Red (contains  
Chlorine Neutralizer)

**Manufactured By:** LaMotte Company  
802 Washington Avenue  
Chestertown, MD 21620

### 2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	143-74-8 Phenol Red	<0.1	None Established	None Established
No	7732-18-5 Water	99.8	None Established	None Established

All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

### 3. Hazards Overview

**Primary Route Of Entry:** Skin Ingestion

May be harmful if swallowed.

#### HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 0      Flammability: 0      Reactivity: 0

**Carcinogenicity:** None:

**Other Health Related Comments:**

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**Product Code:** R161126

**Product Description:** pH Phenol Red (contains  
Chlorine Neutralizer)

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#### **4. First Aid Measures**

**Eye Contact:** Flush thoroughly with plenty of water. Consult physician if irritation develops.

**Skin Contact:** Flush skin with water. Wash with soap and water. Consult physician if irritation develops.

**Ingestion:** Drink plenty of water. Consult physician if irritation develops.

**Inhalation:** Remove to fresh air.

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#### **5. Fire Fighting Measures**

**Flash Point (Method Used):** N/A

**LEL:** N/A

**UEL:** N/A

**Extinguishing Media:** Not a fire hazard

**Special Fire Fighting Procedures:** N/A

**Unusual Fire & Explosion Hazard:** N/A

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#### **6. Accidental Release Measures**

Absorb spill with inert material, containerize, and hold for sanitary disposal. After cleaning, flush away traces with water. Dispose according to federal, state, and local regulations.

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#### **7. Handling & Storage**

Store in cool, dry, storage area away from incompatible materials.

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**Product Code:** R161126

**Product Description:** pH Phenol Red (contains  
Chlorine Neutralizer)

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## **8. Exposure Controls/Personal Protection**

### **Ventilation**

Normal

### **Protection When Handling**

Eye Protection Gloves Lab coat

**Work/Hygenic Practices:** N/A

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## **9. Physical & Chemical Properties**

**Appearance:** Red Liquid

**Solubility In Water:** Soluble

**Odor:** None

**pH:** 8

**Vapor Density:** <1 (Air=1)

**Vapor Pressure:** <17 @ 20° C

**Boiling Point:** ca. 100° C

**Melting Point:** N/A

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## **10. Stability & Reactivity**

**Stable:** Yes

**Conditions To Avoid:** N/A

**Incompatibility (Materials To Avoid):** N/A

**Hazardous Decomposition Products:** N/A

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## **11. Toxicological Information**

**Target Organs:** N/A

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Product Code: R161126

Product Description: pH Phenol Red (contains Chlorine Neutralizer)

**12. Ecological Information**

Information Not Yet Available

**13. Disposal Considerations**

Dispose according to federal, state and local regulations.

**14. Transportation Information**

Not Regulated For Transport

**15. Regulatory Information**

**Chemical Inventory Status**

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	143-74-8 Phenol Red, free acid	Yes	Yes	Yes	No	Yes	No
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

**Federal, State, & International Regulations**

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
143-74-8 Phenol Red, free acid	No	No	No	No	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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**Product Code:** R161126

**Product Description:** pH Phenol Red (contains  
Chlorine Neutralizer)

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Ingredient	Acute	--- SARA 311/312 --- Hazard Categories				----- Australia -----		This MSDS Is WHMIS Compliant
		Chronic	Fire	Pressure	Reactivity	Hazchem Code	Poison Schedule	
143-74-8 Phenol Red, free acid	Yes	No	No	No	No	None Allocated	None Allocated	
7732-18-5 Distilled Water	No	No	No	No	No	None Allocated	None Allocated	
<b>product R161126 as a whole</b>	No	No	No	No	No	None Allocated	None Allocated	Yes

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### **16. Other Information**

Keep out of the reach of children.

**Prepared By:** Regulatory Affairs Department

**Revised:** 3/10/2010

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