

# **Safety Data Sheet**

Issuing Date Mar-03-2015 Revision Number 0

# 1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product name pH Phenol Red (Contains Chlorine Neutralizer)

Other means of identification

Product Code(s) R161009 R161009B R210087 R161093 R161116 R161126

Recommended use of the chemical and restrictions on use

Recommended Use Test kit reagent for water testing. Industrial (not for food or food contact use). Laboratory

chemicals.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

**Supplier Address** 

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

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

# 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status** 

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## **EMERGENCY OVERVIEW**

Appearance red transparent Physical state liquid Odor Odorless

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## 4. FIRST AID MEASURES

#### **FIRST AID MEASURES**

**General advice** Do not get in eyes, on skin, or on clothing. If symptoms persist, call a physician. Show this

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## R161009 R161009B R210087 R161093 R161116 R161126 pH Phenol Red (Contains Chlorine Neutralizer)

safety data sheet to the doctor in attendance. Do not breathe

dust/fume/gas/mist/vapors/spray.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin contact**Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Consult a physician if necessary.

Inhalation Not expected to require first aid measures. Move to fresh air. Consult a physician.

**Ingestion** Drink plenty of water. Rinse mouth. If symptoms persist or develop contact physician. Do

NOT induce vomiting.

<u>Protection of First-aiders</u> Use personal protective equipment.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Refer to Section 8.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container.

**Methods for cleaning up**After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

Precautions for safe handling

**Handling** Do not eat, drink, or smoke when using this product. Avoid contact with skin, eyes and

clothing. Wear personal protective equipment. Remove and wash contaminated clothing

before re-use. Do not breathe vapors or spray mist.

Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated

place.

Incompatible Products Not Applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

#### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/face Protection** Tightly fitting safety goggles.

**Skin and body protection** Wear protective gloves/clothing.

**Hygiene Measures** Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state liquid

Appearance red transparent Odor Odorless

Property Values Remarks • Method

**pH** 8

Melting point/freezing point

Boiling Point/Range

No information available

100 °C / 212 °F

No information available

**Evaporation rate** 

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available No information available Lower flammability limit: Vapor pressure No information available Vapor density No information available No information available Specific gravity Water solubility No information available Solubility in other solvents No information available No information available **Partition coefficient Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

# **Other Information**

Softening pointNo information availableMolecular weightNo information availableVOC ContentNo information availableDensityNo information availableBulk densityNo information available

# 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

**Hazardous Reactions**None under normal processing.

## R161009 R161009B R210087 R161093 R161116 R161126 pH Phenol Red (Contains Chlorine Neutralizer)

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**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid**None known based on information supplied.

Incompatible materials Not Applicable. Hazardous decomposition products None known.

## 11. TOXICOLOGICAL INFORMATION

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Information on likely routes of exposure

**Component Information** 

Information on toxicological effects

Chronic toxicity No known effect.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Unknown Aquatic Toxicity 0.05% of the mixture consists of components(s) of unknown hazards to the aquatic environment

## Persistence and degradability

No information available.

#### Bioaccumulation/Accumulation

No information available.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations. This material, as supplied, is not a

hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations

for additional requirements.

**Contaminated packaging** Do not re-use empty containers.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

IATA Not regulated

IMDG/IMO Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies Complies **DSL/NDSL EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies **KECL** Complies Complies **PICCS** Complies AICS

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## U.S. State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

		16. OTHER INFORM	IATION	
NFPA	Health hazard 0	Flammability 0	Instability 0	Physical and Chemical
HMIS	Health hazard 0	Flammability 0	Physical hazards 0	Hazards N/A Personal precautions
				N/A



Prepared by Regulatory Affairs Department

Issuing Date Mar-03-2015 Revision Date Mar-04-2015

Reason for revision New US GHS format

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS** 

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# **Safety Data Sheet**

Issuing Date Feb-03-2015 Revision Number 0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name RAINBOW™ Solution OTO 1 Chlorine/Bromine Test

Other means of identification

Product Code(s) R161007 R161007B R161023 R161046 R161056 210088

UN-No 1789

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Industrial (not for food or food contact use). Test kit reagent.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Supplier Address Pentair Water Pool and Spa 1620 Hawkins Avenue Sanford, NC 27330

Telephone: 800-831-7133

#### Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

## 2. HAZARDS IDENTIFICATION

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1B

## **EMERGENCY OVERVIEW**

#### DANGER

#### Hazard statements

Causes severe skin burns and eye damage. May cause cancer.



Appearance Clear, colorless

Physical state liquid

Odor pungent

#### Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not ingest. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling.

## **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# R161007 R161007B R161023 R161046 R161056 210088 RAINBOW™ Solution OTO 1 Chlorine/Bromine Test

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

## **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### Other Hazards

May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Hydrochloric acid	7647-01-0	5.2

## 4. FIRST AID MEASURES

#### FIRST AID MEASURES

General advice Do not get in eyes, on skin, or on clothing.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. Consult a physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration and contact emergency personnel. Call a physician immediately.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Clean mouth with water. Consult a

physician. Never give anything by mouth to an unconscious person.

<u>Self-protection of the first aider</u> Use personal protective equipment. See Section 8 for more information. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

## 5. FIRE-FIGHTING MEASURES

## Suitable extinguishing media

Water spray. Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8. Avoid

contact with skin, eyes, and inhalation of vapors.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for cleaning up Neutralize spill with alkaline material (sodium bicarbonate), being careful to prevent

splattering, then containerize slurry and hold for later disposal. If local regulations permit, dilute slurry with water and rinse to drain with excess water. Keep in suitable and closed

containers for disposal. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room

temperature. Keep away from direct sunlight. Keep away from heat and incompatibles.

Keep out of the reach of children.

Incompatible Products Strong bases. Strong oxidizing agents. Metals. Cyanides. Sulfides. Formaldehyde.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	Ceiling: 2 ppm	Ceiling 5 ppm (7mg/m³)	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m³

## Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection Wear protective gloves/clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling

the product. Remove and wash contaminated clothing before re-use.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state liquid

Appearance Clear, colorless Odor pungent

Property Values Remarks • Method

pH

Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation rate

No information available
100 °C / 212 °F
No information available

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Specific gravity ~1

No information available Water solubility Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available No information available Decomposition temperature No information available Kinematic viscosity Dynamic viscosity No information available **Explosive properties** No information available Oxidizing properties No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

# 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Excessive heat. Incompatible products. Direct sunlight.

Incompatible materials Strong bases. Strong oxidizing agents. Metals. Cyanides. Sulfides. Formaldehyde.

Hazardous decomposition products Chlorine gas. Hydrogen gas. Hydrogen chloride.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid 7647-01-0	238 - 277 mg/kg (Rat)	> 5010 mg/kg(Rabbit)	= 1.68 mg/L (Rat)1 h

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	-	Group 3	None Established	-
7647-01-0				

IARC (International Agency for Research on Cancer) Group 3 - Not classifiable as to its carcinogenicity to humans

Chronic toxicity Chronic exposure to corrosive mists or vapors may cause erosion of the teeth.

ATEmix (oral) 4577 mg/kg ATEmix (dermal) 96346 mg/kg

ATEmix (inhalation-dust/mist) 9.6 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Hydrochloric acid	None Established	282: 96 h Gambusia affinis mg/L	None Established
7647-01-0		LC50 static	

## Persistence and degradability

No information available.

## Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Hydrochloric acid 7647-01-0	None Established

# 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of contents/containers in accordance with local regulations.

Contaminated packaging Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrochloric acid 7647-01-0	None Established	-	None Established	None Established
Chemical name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes

Chemical name	California Hazardous Waste Status
Hydrochloric acid 7647-01-0	-

# 14. TRANSPORT INFORMATION

DOT

Proper shipping name HYDROCHLORIC ACID SOLUTION

UN-No 1789

Proper shipping name HYDROCHLORIC ACID SOLUTION

Hazard Class 8
Packing group III
Reportable Quantity (RQ) 5000

IATA

Proper shipping name HYDROCHLORIC ACID SOLUTION

UN-No 1789

Proper shipping name HYDROCHLORIC ACID SOLUTION

Hazard Class 8
Packing group III

IMDG/IMO

# R161007 R161007B R161023 R161046 R161056 210088 RAINBOW™ Solution OTO 1 Chlorine/Bromine Test

Proper shipping name HYDROCHLORIC ACID SOLUTION

UN-No 1789

Proper shipping name HYDROCHLORIC ACID, SOLUTION

Hazard Class 8
Packing group

# 15. REGULATORY INFORMATION

International Inventories

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Complies Does not comply **ENCS IECSC** Complies Does not comply KECL **PICCS** Complies Does not comply AICS

#### Leaend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Hydrochloric acid 7647-01-0	1.0

## SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

## **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid 7647-01-0	5000 lb	None Established	None Established	X

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Hydrochloric acid	5000 lb	5000 lb	RQ 5000 lb final RQ
7647-01-0			RQ 2270 kg final RQ

## US State Regulations

## **California Proposition 65**

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

Chemical name	California Proposition 65	
Hydrochloric acid 7647-01-0	None Established	

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania				
Hydrochloric acid 7647-01-0	X	X	X				
16. OTHER INFORMATION							

NFPA Health hazard 3 Flammability 0 Instability 0 Physical and Chemical Hazards N/A



Prepared by Regulatory Affairs Department

Issuing DateFeb-03-2015Revision DateMar-26-2015Reason for revisionNew US GHS format

**Disclaimer** 

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**End of Material Safety Data Sheet**