

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

1 Identification of the substance/preparation and of the company/undertaking

- **Product details:** Chlorine Test Solution
- **Trade name:** Swimming Pool & Spa Test Kit Refill Solutions (Chlorine Solution)
- **Registration number** Not available
- **Application of the substance / the preparation** testing the *Ej trqt kpg'Ngxgnof* water
- **Manufacturer/Supplier:**
U.S. Pool Supply (dba - TCP Global Corporation)
6695 Rasha St, San Diego, CA. 92121
TEL:858-909-2110
- **Further information obtainable from:** TCP Global Corporation
- **Information in case of emergency:**
TCP Global Corporation - 858-909-2110
CHEMTREC 1-800-424-9300
- **Email:** support@tcpglobal.com





2 Hazards identification

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredient

- **Chemical characterization**
- **Description:**
Mixture of substances listed below with nonhazardous additions.
For the wording of the listed risk phrases refer to section 16.

- **Dangerous components:**

CAS: 7647-01-0 EINECS: 231-595-7 EU Number: 017-002-01-X	hydrogen chloride	 C,  Xi; R 34-37	3,7%
CAS: 612-82-8 EINECS: 210-322-5 EU Number: 612-081-00-5	salts of 4,4'-bi-o-toluidine	Carc. Cat. 2;  T,  N; R 45-22-51/53	0,09%

- **Non-dangerous component:**

CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, conductivity or of similar purity	96,21%
-------------------------------------	---	--------

- **Remark:**
salts of 4,4'-bi-o-toluidine (CAS No. 612-82-8)
Synonym: O-Tolidine Dihydrochloride

4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

EU

(Contd. on page 2)

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

Trade name: Swimming Pool & Spa Test Kit Refill Solutions (Chlorine Solution)

(Contd. of page 1)

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:**
Wear fully protective suit.
Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

7647-01-0 hydrogen chloride

IOELV (EU)	Short-term value: 15 mg/m ³ , 10 ppm Long-term value: 8 mg/m ³ , 5 ppm
WEL (Great Britain)	Short-term value: 8 mg/m ³ , 5 ppm Long-term value: 2 mg/m ³ , 1 ppm (gas and aerosol mists)
PEL (USA)	Short-term value: C 7 mg/m ³ , C 5 ppm
REL (USA)	Short-term value: C 7 mg/m ³ , C 5 ppm
TLV (USA)	Short-term value: C 2,98 mg/m ³ , C 2 ppm

- **DNELs** Not available
- **PNECs** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 3)

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

Trade name: Swimming Pool & Spa Test Kit Refill Solutions (Chlorine Solution)

(Contd. of page 2)

- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling

9 Physical and chemical properties

· General Information

Form:	Liquid
Colour:	Light yellow
Odour:	Pungent

· Change in condition

Melting point/Melting range:	Not available
Boiling point/Boiling range:	100°C

· **Flash point:** Not available

· **Flammability (solid, gaseous):** Not available

· **Ignition temperature:** Not available

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower:	Not available
Upper:	Not available

· **Oxidizing properties** Not available

· **Vapour pressure:** Not available

· Density:	Not available
· Relative density	Not available
· Vapour density	Not available
· Evaporation rate	Not available

· **Solubility in / Miscibility with water:** Easily soluble.

· **pH-value:** Strongly acidic

· **Segregation coefficient (n-octanol/water):** Not available

· Viscosity:

Dynamic:	Not available
-----------------	---------------

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:

7647-01-0 hydrogen chloride

Oral LD50 900 mg/kg (rabbit)

· Primary irritant effect:

· **on the skin:** Irritating effect possible

(Contd. on page 4)

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

Trade name: Swimming Pool & Spa Test Kit Refill Solutions (Chlorine Solution)

- (Contd. of page 3)
- **on the eye:** Irritating effect possible
 - **Sensitization:** Sensitization possible.
 - **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
 - **Toxicokinetics, metabolism and distribution** Not available
 - **Acute effects (acute toxicity, irritation and corrosivity)** Not available
 - **Repeated dose toxicity** Not available
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not available

12 Ecological information

- **Information about elimination (persistence and degradability):** Not available
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:** Not available
- **Ecotoxicological effects:**
- **Acquatic toxicity:** Not available
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **PBT assessments** Not available

13 Disposal considerations

- **Product:**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 8 Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1760
- **Packaging group:** III
- **Hazard label:** 8
- **Description of goods:** 1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID)
- **Limited quantities (LQ)** LQ7
- **Transport category** 3
- **Tunnel restriction code** E

- **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 1760

(Contd. on page 5)

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

Trade name: **Swimming Pool & Spa Test Kit Refill Solutions (Chlorine Solution)**

(Contd. of page 4)

- **Label** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1760
- **Label** 8
- **Packaging group:** III
- **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID)

15 Regulatory information

- **Sara**

- **Section 355(extremely hazardous substances):**

7647-01-0	hydrogen chloride
-----------	-------------------

- **Section 313(Specific toxic chemical listings):**

7647-01-0	hydrogen chloride
-----------	-------------------

612-82-8	salts of 4,4'-bi-o-toluidine
----------	------------------------------

- **TSCA(Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

612-82-8	salts of 4,4'-bi-o-toluidine
----------	------------------------------

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Cancerogenity categories**

- **EPA(Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC(International Agency for Research on Cancer)**

7647-01-0	hydrogen chloride	3
-----------	-------------------	---

- **NTP(National Toxicology Program)**

None of the ingredients is listed.

- **TLV(Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca(National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca(Occupational Safety & Health Administration)**

None of the ingredients is listed.

(Contd. on page 6)

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

Trade name: Swimming Pool & Spa Test Kit Refill Solutions (Chlorine Solution)

(Contd. of page 5)

· **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

· **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

16 Other information

· **Relevant R-phrases**

22 Harmful if swallowed.

34 Causes burns.

37 Irritating to respiratory system.

45 May cause cancer.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

 The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.

DISCLAIMER OF LIABILITY

The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

 End of document

EU

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

1 Identification of the substance/preparation and of the company/undertaking

- **Product details:** *PH Test Solution*
- **Trade name:** *Swimming Pool & Spa Test Kit Refill Solutions (PH Test Solution)*
- **Registration number** *Not available*
- **Application of the substance / the preparation** *testing PH of water*

- **Manufacturer/Supplier:**

*U.S. Pool Supply (dba - TCP Global Corporation)
6695 Rasha St, San Diego, CA. 92121
TEL: 858-909-2110*

- **Further information obtainable from:** *TCP Global Corporation*

- **Information in case of emergency:**

*TCP Global Corporation - 858-909-2110
CHEMTREC 1-800-424-9300*

- **Email:** *support@tcpglobal.com*

2 Hazards identification

- **Hazard description:** *Not applicable.*
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on

- **Chemical characterization**
- **Description:**
*Mixture of substances listed below with nonhazardous additions.
For the wording of the listed risk phrases refer to section 16.*
- **Dangerous components:** *Not applicable*

- **Non-dangerous component:**

<i>CAS: 7732-18-5 EINECS: 231-791-2</i>	<i>water, distilled, conductivity or of similar purity</i>	<i>99,7%</i>
<i>CAS: 34487-61-1 EINECS: 252-057-8</i>	<i>sodium hydrogen 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bisphenolate S,S-dioxide</i>	<i>0,3%</i>

- **Remark:**

*sodium hydrogen 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bisphenolate S,S-dioxide (CAS No. 34487-61-1)
Synonym: phenol red*

4 First aid measures

- **General information:** *No special measures required.*
- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:** *If symptoms persist consult doctor.*

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 2)

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

Trade name: Swimming Pool & Spa Test Kit Refill Solutions (PH Test Solution)

(Contd. of page 1)

- **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs** Not available
- **PNECs** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling

9 Physical and chemical properties

· General Information

Form:	Liquid
Colour:	Red

(Contd. on page 3)

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

Trade name: Swimming Pool & Spa Test Kit Refill Solutions (PH Test Solution)

(Contd. of page 2)

Odour:	Odourless
· Change in condition	
Melting point/Melting range:	Not available
Boiling point/Boiling range:	100°C
· Flash point:	Not available
· Flammability (solid, gaseous):	Not available
· Ignition temperature:	Not available
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not available
Upper:	Not available
· Oxidizing properties	Not available
· Vapour pressure:	Not available
· Density:	Not available
· Relative density	Not available
· Vapour density	Not available
· Evaporation rate	Not available
· Solubility in / Miscibility with water:	Easily soluble.
· pH-value:	8,3
· Segregation coefficient (n-octanol/water):	Not available
· Viscosity:	
Dynamic:	Not available

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritating effect possible
- **on the eye:** Irritating effect possible
- **Sensitization:** Sensitization possible.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
- **Toxicokinetics, metabolism and distribution** Not available
- **Acute effects (acute toxicity, irritation and corrosivity)** Not available
- **Repeated dose toxicity** Not available
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** Not available

EU

(Contd. on page 4)

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

Trade name: Swimming Pool & Spa Test Kit Refill Solutions (PH Test Solution)

(Contd. of page 3)

12 Ecological information

- **Information about elimination (persistence and degradability):** Not available
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:** Not available
- **Ecotoxicological effects:**
- **Acquatic toxicity:** Not available
- **General notes:** Generally not hazardous for water
- **PBT assessments:** Not available

13 Disposal considerations

- **Product:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Danger code (Kemler):** -
- **UN-Number:** -
- **Hazard label:** -
- **Description of goods:** -
- **Limited quantities (LQ):** -
- **Transport category:** -
- **Tunnel restriction code:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **UN Number:** -
- **Label:** -
- **Packaging group:** -
- **EMS Number:** -
- **Marine pollutant:** No
- **Proper shipping name:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN/ID Number:** -
- **Label:** -
- **Packaging group:** -
- **Proper shipping name:** -

15 Regulatory information

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

(Contd. on page 5)

Safety Data Sheet

Printing date 08.01.2016

Revision: 08.01.2016

Trade name: Swimming Pool & Spa Test Kit Refill Solutions (PH Test Solution)

(Contd. of page 4)

· Proposition 65
· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories
· EPA(Environmental Protection Agency)

None of the ingredients is listed.

· IARC(International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP(National Toxicology Program)

None of the ingredients is listed.

· TLV(Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca(National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca(Occupational Safety & Health Administration)

None of the ingredients is listed.

· Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

16 Other information

 The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.

DISCLAIMER OF LIABILITY

The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

 End of document