

# SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH) &  
COMMISSION REGULATION (EU) 2020/878

Version 1  
Product Name SWIMMING POOL TEST KIT- OTO SOLUTION

Issue Date 31-Aug-2023  
Revision date 31-Aug-2023

## SECTION 1: Identification of the substance /mixture and of the company/undertaking

### 1.1. Product identifier

Product Name SWIMMING POOL TEST KIT- OTO SOLUTION  
REACH registration number No information available

Unique Formula Identifier(UFI) H532-2058-N00J-WQFH

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Test free chlorine  
Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

Supplier Ningbo Dongchuan Swimming Pool Equipments Co.,Ltd.  
Address No.3 Xiling Industrial Park, Xiaowangmiao Sub-district, Fenghua District,  
Ningbo, China  
Postal Code 315599  
Phone +86-574-88159776  
FAX  
E-mail jerry@chinapools.cn

Importer  
Address  
Postal Code  
Phone  
FAX  
E-mail

### 1.4. Emergency telephone number

+86-574-88159776

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation Category 1 Sub-category C - (H314)

Serious eye damage/eye irritation Category 1 - (H318)

### 2.2. Label elements

Symbols/Pictograms



Signal word Warning  
Hazard Statements H314 - Causes severe skin burns and eye damage  
Precautionary Statements

P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all  
 contaminated clothing. Rinse skin with water/shower  
 P310 - Immediately call a POISON CENTER or doctor/physician

### 2.3. Other hazards

No information available

## SECTION 3: Composition/information on ingredients

### 3.1 Mixture

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water ,distilled, conductivity or of similar purity	231-791-2	7732-18-5	89-100	Not classified
hydrochloric acid (36-38%)	231-595-7	7647-01-0	0-10	Skin Corr. 1B (H314) STOT SE 3 (H335)
o-Tolidine	204-358-0	119-93-7	0-1	Acute Tox. 4 (H302) Carc. 1B (H350) Aquatic Chronic 2 (H411)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

#### Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Ingestion

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

### 4.2. Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable extinguishing media**

No information available

**5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating and toxic gases and vapors: carbon oxides, nitric oxides, chloride, etc

**5.3. Advice for firefighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation, especially in confined areas.  
Wear protective equipment. Keep unprotected persons away.  
Remove all sources of ignition.  
Avoid contact with skin, eyes and inhalation of vapors  
Use personal protection recommended in Section 8

**6.2. Environmental precautions**

Local authorities should be advised if significant spillages cannot be contained  
Prevent entry into waterways, sewers, basements or confined areas

**6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13)

**6.4. Reference to other sections**

See Section 7 for more information  
See section 8 for more information  
See section 13 for more information

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice  
Ensure adequate ventilation, especially in confined areas  
Prevent formation of aerosols.  
Avoid contact with skin, eyes or clothing  
Wash contaminated clothing before reuse  
Do not breathe dust/fume/gas/mist/vapors/spray  
Do not eat, drink or smoke when using this product  
Wash thoroughly after handling  
Use personal protection recommended in Section 8

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place  
Store only in the original receptacle.  
Keep away from heat  
Protect from sunlight  
Do not store together with alkalis (caustic solutions).  
Store away from oxidizing agents.  
Store away from metals.  
Do not store together with textiles.

Keep locked up and out of reach of children  
 Keep away from food, drink and animal feeding stuffs  
 Store in accordance with local regulations

**7.3. Specific end use(s)**

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
Hydrochloric acid 7647-01-0	5 ppm Peak 7.5 mg/m <sup>3</sup> Peak	STEL 10 ppm STEL 15 mg/m <sup>3</sup> TWA: 5 ppm TWA: 8 mg/m <sup>3</sup>	-	Ceiling: 5 ppm Ceiling: 8 mg/m <sup>3</sup>	TWA 5 ppm TWA 8 mg/m <sup>3</sup> STEL 10 ppm STEL 15 mg/m <sup>3</sup>
o-Tolidine 119-93-7	Skin	Skin	-	-	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Hydrochloric acid 7647-01-0	TWA: 5 ppm TWA: 8 mg/m <sup>3</sup> STEL: 10 ppm STEL: 15 mg/m <sup>3</sup>	STEL: 5 ppm STEL: 7.6 mg/m <sup>3</sup>	STEL: 5 ppm STEL: 7.6 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 3.0 mg/m <sup>3</sup> Ceiling / Peak: 4 ppm Ceiling / Peak: 6 mg/m <sup>3</sup>  TWA: 3 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 8 mg/m <sup>3</sup> STEL: 10 ppm STEL: 15 mg/m <sup>3</sup>
o-Tolidine 119-93-7		-	-	Skin	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Hydrochloric acid 7647-01-0	STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	Ceiling: 2 ppm	STEL: 10 ppm STEL: 15 mg/m <sup>3</sup> TWA: 5 ppm TWA: 7.6 mg/m <sup>3</sup>	STEL: 4 ppm STEL: 6 mg/m <sup>3</sup> TWA: 2 ppm TWA: 3.0 mg/m <sup>3</sup>	STEL: 15 mg/m <sup>3</sup> TWA: 8 mg/m <sup>3</sup>
o-Tolidine 119-93-7	-	-	-	TWA: 0.003 ppm TWA: 0.03 mg/m <sup>3</sup>	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>	STEL: 5 ppm STEL: 8 mg/m <sup>3</sup> TWA: 1 ppm TWA: 2 mg/m <sup>3</sup>	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m <sup>3</sup> Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>
o-Tolidine 119-93-7	-	-	S*	-	Ceiling: 0.02 mg/m <sup>3</sup> 60 min

7647-01-0 Hydrochloric acid	
IOELV (EU)	Short-term value: 15 mg/m <sup>3</sup> , 10 ppm Long-term value: 8 mg/m <sup>3</sup> , 5 ppm
WEL (Great Britain)	Short-term value: 8 mg/m <sup>3</sup> , 5 ppm Long-term value: 2 mg/m <sup>3</sup> , 1 ppm (gas and aerosol mists)
PEL (America)	Short-term value: C 7 mg/m <sup>3</sup> , C 5 ppm
REL (America)	Short-term value: C 7 mg/m <sup>3</sup> , C 5 ppm
TLV (America)	Short-term value: C 2,98 mg/m <sup>3</sup> , C 2 ppm
119-93-7 o-Tolidine	
REL (America)	Short-term value: C 0,02* mg/m <sup>3</sup>
TLV (America)	*60-min; Skin Skin; L

**Derived No Effect Level (DNEL)**

No information available.

**Predicted No Effect Concentration (PNEC)**

No information available.

**8.2. Exposure controls****Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

Eye/face protection

Wear safety glasses with side shields (or goggles)

Hand Protection

Wear protective gloves when handling

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.

Skin and body protection

Suitable protective clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

**Environmental exposure controls**

Do not allow into any sewer, on the ground or into any body of water

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Color</b>	Slight yellow
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH</b>	< 1.0
<b>Melting point/freezing point</b>	-10 °C
<b>Boiling point / boiling range</b>	Not available
<b>Flash point</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	No information available
<b>Vapor Pressure</b>	14mbr
<b>Vapor density</b>	No information available
<b>Density</b>	ca. 1 g/cm <sup>3</sup>
<b>Relative density</b>	No information available
<b>Bulk density</b>	No information available
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	Product is water solution
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available

**Kinematic viscosity**  
**Dynamic viscosity**  
**Explosive properties**  
**Oxidizing properties**

Hydrochloric acid: 0.0000017 other: m2/s z at 20 °C  
 No information available  
 Product does not present an explosion hazard.  
 No information available

**9.2. Other information**  
 No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Strong heating and incompatible material

### 10.5. Incompatible materials

Bases. Amines. Alkali metals. Metals. Oxidizing agents.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to carbon oxides, nitric oxides, chloride ,etc

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid	= 900 mg/kg (Rabbit )	> 5010 mg/kg ( Rabbit )	= 3124 ppm ( Rat ) 1 h
o-Tolidine (CAS #: 119-93-7)	= 404 mg/kg ( Rat )		

#### Skin corrosion/irritation

Contact causes severe skin irritation and possible burns.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Sensitization

No information available.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Chemical Name	European Union	IARC
Hydrochloric acid	-	Group 3
o-Tolidine	Carc. 1B	Group 2B

#### Reproductive toxicity

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Hydrochloric acid	-	282: 96 h Gambusia affinis mg/L LC50 static	-

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

**12.6. Other adverse effects**

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.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.

**SECTION 14: Transport information**

<b>14.1 UN Number</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not marine pollutant
<b>14.6 Special precautions</b>	No information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### International Inventories

Component	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Water, distilled, conductivity or of similar purity 7732-18-5	X	X	X	-	X	X	X	X
Hydrochloric acid 7647-01-0	X	X	X	X	X	X	X	X
o-Tolidine 119-93-7	X	X	X	X	X	X	X	X

"-" Not Listed

"X" Listed

### 15.2. Chemical safety assessment

No information available

## SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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Revision Note Not applicable

#### Key or legend to abbreviations and acronyms used in the safety data sheet

**TWA** - TWA (time-weighted average)

**STEL** - STEL (Short Term Exposure Limit)

**Ceiling** - Maximum limit value

**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

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H350 - May cause cancer if swallowed

H411 - Toxic to aquatic life with long lasting effects

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation.



**Disclaimer**

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----