

# Pool Test Kit (O-Tolidine solution)

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations ( According to HCS-2012 APPENDIX D TO §1910.1200 )  
Issue date: 1/12/2022 Revision date: 1/12/2022 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Pool Test Kit (O-Tolidine solution)

#### 1.2. Recommended use and restrictions on use

Recommended use : Testing the water cl value  
Restrictions on use : No information available.

#### 1.3. Supplier

##### Supplier

Ningbo Enjoywater Pool Products Co., Ltd.  
No.17, Huadun Road, Jiangshan Town, Yinzhou, Ningbo, China.  
315193  
T +86-574-27868977 - F +86-574-27868969  
[webmaster@poolchina.com](mailto:webmaster@poolchina.com)

#### 1.4. Emergency telephone number

Emergency number : +86-574-27868977

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) : None  
Signal word (GHS US) : None  
Hazard statements (GHS US) : Not applicable  
Precautionary statements (GHS US) : Not applicable

#### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : No information available.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
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Name	Product identifier	%
Water	CAS-No.: 7732-18-5	> 95.9
Hydrochloric acid	CAS-No.: 7647-01-0	< 4
3,3'-Dimethylbenzidine	CAS-No.: 119-93-7	< 0.1

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Get medical advice/attention if you feel unwell.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: No information available.
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### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: No information available.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released, such as carbon oxides, nitrogen oxides, chlorides.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## SECTION 6: Accidental release measures

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

General measures	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation, especially in confined areas.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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Emergency procedures : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

### 6.2. Environmental precautions

Avoid release to the environment. Do not flush into surface water or sanitary sewer system.

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

For containment : No information available.  
Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Evacuate unnecessary personnel. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation, especially in confined areas. Wear personal protective equipment.  
Hygiene measures : Keep away from food, drink and animal feeding stuffs. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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

Storage conditions : Store in a well-ventilated place. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Incompatible materials : Strong oxidizing agents, bases, metal.  
Packaging materials : No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Water (7732-18-5)

No additional information available

#### Hydrochloric acid (7647-01-0)

##### USA - ACGIH - Occupational Exposure Limits

ACGIH OEL C [ppm]	2 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen

##### USA - OSHA - Occupational Exposure Limits

OSHA PEL C	7 mg/m <sup>3</sup>
OSHA PEL C [ppm]	5 ppm

##### USA - IDLH - Occupational Exposure Limits

IDLH [ppm]	50 ppm
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##### USA - NIOSH - Occupational Exposure Limits

NIOSH REL C	7 mg/m <sup>3</sup>
NIOSH REL C [ppm]	5 ppm

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### 3,3'-Dimethylbenzidine (119-93-7)

#### USA - ACGIH - Occupational Exposure Limits

ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
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#### USA - NIOSH - Occupational Exposure Limits

NIOSH REL C	0.02 mg/m <sup>3</sup>
US-NIOSH chemical category	Potential for dermal absorption

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves.

#### Eye protection:

Safety glasses.

#### Skin and body protection:

Wear suitable protective clothing.

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid
Color	: White and gray
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: No data available
Solubility	: Water-miscible
Partition coefficient n-octanol/water (Log Pow)	: 3,3'-Dimethylbenzidine (119-93-7): 2.34
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosion limits : No data available  
Explosive properties : Not explosive  
Oxidizing properties : Non oxidizing.

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Contact with metals may evolve flammable hydrogen gas which may form explosive mixtures with air.

### 10.4. Conditions to avoid

Heat, flames and sparks. Strong heating. Incompatible materials.

### 10.5. Incompatible materials

Strong oxidizing agents, bases, metal.

### 10.6. Hazardous decomposition products

Nitrogen oxides, chlorides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Water (7732-18-5)

LD50 oral rat	> 90 mL/kg
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#### Hydrochloric acid (7647-01-0)

LD50 oral rat	238 - 277 mg/kg
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LD50 dermal rabbit	> 5010 mg/kg
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LC50 Inhalation - Rat	1.68 mg/L/1 h
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#### 3,3'-Dimethylbenzidine (119-93-7)

LD50 oral rat	404 mg/kg
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Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

#### Hydrochloric acid (7647-01-0)

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### Hydrochloric acid (7647-01-0)

IARC group : 3 - Not classifiable

### 3,3'-Dimethylbenzidine (119-93-7)

IARC group : 2B - Possibly carcinogenic to humans

National Toxicity Program (NTP) Status : Reasonably anticipated to be Human Carcinogen

In OSHA Hazard Communication Carcinogen list : Yes

Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified  
Symptoms/effects after inhalation : No information available.  
Symptoms/effects after skin contact : No information available.  
Symptoms/effects after eye contact : No information available.  
Symptoms/effects after ingestion : No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

### Hydrochloric acid (7647-01-0)

LC50 - Fish [1] : 3.25 - 3.5 mg/L

EC50 - Crustacea [1] : 4.92 mg/L

ErC50 algae : 4.7 mg/L

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

### 3,3'-Dimethylbenzidine (119-93-7)

Partition coefficient n-octanol/water (Log Pow) : 2.34

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other adverse effects : No information available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

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In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not applicable

**TDG**  
Transport hazard class(es) (TDG) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (DOT)	: Not applicable
Packing group (TDG)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

**DOT**  
No data available

**TDG**  
No data available

**IMDG**  
No data available

**IATA**  
No data 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. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

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Name	CAS-No.	Listing	Commercial status	Flags
Water	7732-18-5	Present	Active	
Hydrochloric acid	7647-01-0	Present	Active	
3,3'-Dimethylbenzidine	119-93-7	Present	Active	

### Hydrochloric acid (7647-01-0)

Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
Section 302 EPCRA Reportable Quantity (RQ)	5000 lb gas only
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb (gas only)

### 3,3'-Dimethylbenzidine (119-93-7)

Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	10 lb
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## 15.2. International regulations

### CANADA

#### Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

#### Hydrochloric acid (7647-01-0)

Listed on the Canadian DSL (Domestic Substances List)

#### 3,3'-Dimethylbenzidine (119-93-7)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

#### Water (7732-18-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Hydrochloric acid (7647-01-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 3,3'-Dimethylbenzidine (119-93-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### National regulations

#### Water (7732-18-5)



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### Water (7732-18-5)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### Hydrochloric acid (7647-01-0)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
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Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Poisonous and Deleterious Substances Control Law  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### 3,3'-Dimethylbenzidine (119-93-7)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### 15.3. US State regulations

#### 3,3'-Dimethylbenzidine (119-93-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.044 µg/day	

## SECTION 16: Other information

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations ( According to HCS-2012 APPENDIX D TO §1910.1200 )

Issue date : 01/12/2022  
Revision date : 01/12/2022  
Data sources : ECHA. Loli.

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Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.  
Other information : No information available.

Abbreviations and acronyms	
SDS	Safety Data Sheet
LC50	Median lethal concentration
LD50	Median lethal dose
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

Indication of changes:
Not applicable.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.