

SAFETY DATA SHEET

HCS-2012 APPENDIX D TO §1910.1200

1.1. Product identifier

Product Name O-Tolidine solution
REACH registration number No information available

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

Recommended Use Testing the water cl value
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Ningbo Dongchuan Swimming Pool Equipment Co.,Ltd.
Address No.32 Dongbei Road,Dongqiao Industrial Park,Haishu
District,Ningbo,China
Postal Code 315157
Phone +86-754-88159779
FAX +86-754-88159781
E-mail anny@chinapools.cn

Importer
Address
Postal Code
Phone
FAX
E-mail



1.4. Emergency telephone number

+86-574-88159779

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Corrosive to metals Category 1 - (H290)

2.2. Label elements

Symbols/Pictograms



Signal word

Warning

Hazard Statements

H290 - May be corrosive to metal

Precautionary Statements

P234 - Keep only in original container

P390 - Absorb spillage to prevent material damage

P406 - Store in corrosive resistant container with a resistant inliner

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1 Mixture

Chemical Name	EC No	CAS No	Weight-%
Water	231-791-2	7732-18-5	>96.43
Hydrogen chloride	231-595-7	7647-01-0	<3.5
O-Tolidine (3,3'-Dimethylbenzidine)	204-358-0	119-93-7	<0.07

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 Get medical attention Never give anything by mouth to an unconscious person

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

No information available

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

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

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

Evacuate personnel to safe areas
Ensure adequate ventilation, especially in confined areas
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)
Avoid contact with skin, eyes and inhalation of vapors
Use personal protection recommended in Section 8
Wash thoroughly after handling

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
Avoid contact with skin, eyes or clothing
Wash contaminated clothing before reuse
Keep away from heat, sparks, flame and other sources of ignition
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Use personal protection recommended in Section 8
Wash thoroughly after handling

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place
Keep away from heat, sparks, flame and other sources of ignition
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
Hydrogen chloride (CAS #: 7647-01-0)	5 ppm Peak 7.5 mg/m ³ Peak	STEL 10 ppm STEL 15 mg/m ³ TWA: 5 ppm TWA: 8 mg/m ³	-	Ceiling: 5 ppm Ceiling: 8 mg/m ³	TWA 5 ppm TWA 8 mg/m ³ STEL 10 ppm STEL 15 mg/m ³
O-Tolidine (3,3`-Dimethylbenzidine) (CAS #: 119-93-7)	Skin	Skin	-	-	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Hydrogen chloride (CAS #: 7647-01-0)	TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³	STEL: 5 ppm STEL: 7.6 mg/m ³	STEL: 5 ppm STEL: 7.6 mg/m ³	TWA: 2 ppm TWA: 3.0 mg/m ³ Ceiling / Peak: 4 ppm Ceiling / Peak: 6 mg/m ³ TWA: 3 mg/m ³	TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³
O-Tolidine (3,3`-Dimethylbenzidine) (CAS #: 119-93-7)		-	-	Skin	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Hydrogen chloride (CAS #: 7647-01-0)	STEL: 10 mg/m ³ TWA: 5 mg/m ³	Ceiling: 2 ppm	STEL: 10 ppm STEL: 15 mg/m ³ TWA: 5 ppm TWA: 7.6 mg/m ³	STEL: 4 ppm STEL: 6 mg/m ³ TWA: 2 ppm TWA: 3.0 mg/m ³	STEL: 15 mg/m ³ TWA: 8 mg/m ³
O-Tolidine (3,3`-Dimethylbenzidine) (CAS #: 119-93-7)	-	-	-	TWA: 0.003 ppm TWA: 0.03 mg/m ³	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen chloride (CAS #: 7647-01-0)	Ceiling: 5 ppm Ceiling: 7 mg/m ³	STEL: 5 ppm STEL: 8 mg/m ³ TWA: 1 ppm TWA: 2 mg/m ³	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m ³ Ceiling: 5 ppm Ceiling: 7 mg/m ³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m ³

O-Tolidine (3,3'-Dimethylbenzidine) (CAS #: 119-93-7)	-	-	S*	-	Ceiling: 0.02 mg/m ³ 60 min
--	---	---	----	---	--

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. Remove all sources of ignition.

Personal protective equipment

Eye/face protection	Avoid contact with eyes
Hand Protection	Wear protective gloves
Skin and body protection	Suitable protective clothing
Respiratory protection	Ensure adequate ventilation, especially in confined areas

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

Appearance	Aqueous solution
Color	white and grey
Odor	Odorless
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Density	Not determined
Relative density	Not determined
Specific gravity	Not determined
Water solubility	Water-miscible
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive

Oxidizing properties

Not determined

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

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

Strong heating.
Heat, flames and sparks
Incompatible materials

10.5. Incompatible materials

Strong oxidizing agents. Bases. Contact with metals may evolve flammable hydrogen gas.

10.6. Hazardous decomposition products

Hydrogen chloride
Carbon oxides (COx)
Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrogen chloride (CAS #: 7647-01-0)	-	> 5010 mg/kg (Rabbit)	-

Skin corrosion/irritation

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

May cause eye irritation with susceptible persons.

Sensitization

Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

Germ cell mutagenicity

No information available.

Carcinogenicity

Chemical Name	European Union	IARC
Hydrogen chloride (CAS #: 7647-01-0)	-	Group 3
O-Tolidine (3,3`-Dimethylbenzidine) (CAS #: 119-93-7)	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
Hydrogen chloride (CAS #: 7647-01-0)	-	282: 96 h Gambusia affinis mg/L LC50 static	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
O-Tolidine (3,3`-Dimethylbenzidine) (CAS #: 119-93-7)	2.34

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

No information available

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 Disposal should be in accordance with applicable regional, national and local laws and regulations

SECTION 14: Transport information

14.1 UN Number	1760(exempt)
14.2 Proper shipping name	CORROSIVE LIQUID, N.O.S.
14.3 Hazard Class	8
14.4 Packing Group	III
14.5 Environmental hazards	Non-marine pollutant
14.6 Special precautions	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/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Water 7732-18-5 (>95.9)	X	X	X	-	X	X	X	X
Hydrogen chloride 7647-01-0 (<4.0)	X	X	X	X	X	X	X	X
O-Tolidine (3,3'-Dimethylb enzidine) 119-93-7 (<0.1)	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

Issue Date 20-JAN-2017
Revision date 20-JAN-2014
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

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 -----