

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

1.1. Product identifier

Product form : Mixture
Trade name : Phenol red solution

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Testing the water pH value

1.2.2. Uses advised against

Restrictions on use : No information available.

1.3. Details of the supplier of the safety data sheet

Supplier:

Shanghai Suocheng Reagent Co., Ltd.
Room 1201, Shanhai Building, 1476 Pudong Ave Rd, Shanghai China
200135
T +86-21-68559910 - F +86-21-58602865
suochengchem@126.com

Importer:

1.4. Emergency telephone number

Emergency number : +86-21-68559910

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Hazard pictograms (CLP) : None
Signal word (CLP) : None
Hazard statements (CLP) : Not applicable.
Precautionary statements (CLP) : Not applicable.
EUH-statements : None.

2.3. Other hazards

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

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

(EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	99.46	Not classified
Sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	0.49	Skin Corr. 1A, H314
Phenolsulfonphthalein	CAS-No.: 143-74-8 EC-No.: 205-609-7	0.05	Not classified

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	(0.5 ≤C < 2) Eye Irrit. 2, H319 (0.5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

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. If skin irritation occurs: Get medical advice/attention.
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 or a doctor if you feel unwell.

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

Symptoms/effects	: 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 media appropriate for surrounding fire.
Unsuitable extinguishing media	: No information available.

5.2. Special hazards arising from the substance or mixture

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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, sulphur oxides, metal oxides.

5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
--------------------------------	--

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.
------------------	---

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".
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 additional 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, strong acids, strong bases.
Storage temperature	: No information available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.1.1 National occupational exposure and biological limit values

Sodium hydroxide (1310-73-2)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	2 mg/m³ (inhalable fraction)
MAK (OEL STEL)	4 mg/m³ (inhalable fraction)
Bulgaria - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (alkaline aerosols)
Croatia - Occupational Exposure Limits	
KGVI (OEL STEL)	2 mg/m³
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	1 mg/m³
Denmark - Occupational Exposure Limits	
OEL C	2 mg/m³
Estonia - Occupational Exposure Limits	
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Finland - Occupational Exposure Limits	
HTP (OEL C)	2 mg/m³
France - Occupational Exposure Limits	
VME (OEL TWA)	2 mg/m³
Greece - Occupational Exposure Limits	
OEL TWA	2 mg/m³
OEL STEL	2 mg/m³
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	1 mg/m³
CK (OEL STEL)	2 mg/m³
Ireland - Occupational Exposure Limits	
OEL STEL	2 mg/m³
Latvia - Occupational Exposure Limits	
OEL TWA	0.5 mg/m³
Lithuania - Occupational Exposure Limits	
NRV (OEL C)	2 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	0.5 mg/m³
NDSch (OEL STEL)	1 mg/m³
Portugal - Occupational Exposure Limits	
OEL C	2 mg/m³
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	2 mg/m³
Spain - Occupational Exposure Limits	

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Sodium hydroxide (1310-73-2)	
VLA-EC (OEL STEL)	2 mg/m ³
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1 mg/m ³ (inhalable fraction)
KTV (OEL STEL)	2 mg/m ³ (inhalable fraction)
United Kingdom - Occupational Exposure Limits	
WEL STEL (OEL STEL)	2 mg/m ³
Norway - Occupational Exposure Limits	
Takverdi (OEL C) [1]	2 mg/m ³
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	2 mg/m ³ (inhalable dust)
KZGW (OEL STEL)	2 mg/m ³ (inhalable dust)
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL C	2 mg/m ³

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):

No additional information available.

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid
Colour	: White and grey
Odour	: Odourless
Odour threshold	: Not available
Relative evaporation rate (butylacetate=1)	: Not available
Melting point	: Ca. 0 °C
Freezing point	: Not available
Boiling point	: Ca. 100 °C
Flammability	: Non flammable.
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Non-igniting
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Sodium hydroxide (1310-73-2): -3.88
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Ca. 1.0 g/cm³
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable.
Particle size distribution	: Not applicable.
Particle shape	: Not applicable.
Particle aspect ratio	: Not applicable.
Particle aggregation state	: Not applicable.
Particle agglomeration state	: Not applicable.
Particle specific surface area	: Not applicable.
Particle dustiness	: Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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.

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat, flames and sparks. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents, strong acids, strong bases.

10.6. Hazardous decomposition products

Sulphur oxides, metal oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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
Sodium hydroxide (1310-73-2)	
LD50 oral rat	325 mg/kg
LD50 dermal rabbit	1350 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
--	--

11.2.2. Other information

Potential adverse human health effects and symptoms	: No information available.
---	-----------------------------

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term	: Not classified

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

(chronic)

Sodium hydroxide (1310-73-2)

LC50 - Fish [1]	45.4 mg/L/96 h (Oncorhynchus mykiss)
EC50 - Crustacea [1]	40.4 mg/L/48 h (Ceriodaphnia spec)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Sodium hydroxide (1310-73-2)

Partition coefficient n-octanol/water (Log Pow)	-3.88
---	-------

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Phenol red solution

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Other adverse effects : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Contaminated packaging : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Switzerland

Storage class (LK) : LK 10/12 - Liquids

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Phenol red solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

Full text of H- and EUH-statements:

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Safety Data Sheet (SDS), EU

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.

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

1.1. Product identifier

Product form : Mixture
Trade name : O-Tolidine solution

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Testing the water cl value

1.2.2. Uses advised against

Restrictions on use : No information available.

1.3. Details of the supplier of the safety data sheet

Supplier:

Shanghai Suocheng Reagent Co., Ltd.
Room 1201, Shanhai Building, 1476 Pudong Ave Rd, Shanghai China
200135
T +86-21-68559910 - F +86-21-58602865
suochengchem@126.com

Importer:

1.4. Emergency telephone number

Emergency number : +86-21-68559910

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Hazard pictograms (CLP) : None
Signal word (CLP) : None
Hazard statements (CLP) : Not applicable.
Precautionary statements (CLP) : Not applicable.
EUH-statements : None.

2.3. Other hazards

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

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

(EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	> 95.9	Not classified
Hydrochloric acid	CAS-No.: 7647-01-0 EC-No.: 231-595-7 EC Index-No.: 017-002-00-2	< 4	Press. Gas Acute Tox. 3* (Inhalation), H331* Skin Corr. 1A, H314
3,3'-Dimethylbenzidine	CAS-No.: 119-93-7 EC-No.: 204-358-0 EC Index-No.: 612-041-00-7	< 0.1	Acute Tox. 4* (Oral), H302* Carc. 1B, H350 Aquatic Chronic 2, H411

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Hydrochloric acid	CAS-No.: 7647-01-0 EC-No.: 231-595-7 EC Index-No.: 017-002-00-2	(10 ≤C < 25) Eye Irrit. 2, H319 (10 ≤C < 100) STOT SE 3, H335 (25 ≤C < 100) Skin Corr. 1B, H314 (10 ≤C < 25) Skin Irrit. 2, H315

Full text of H- and EUH-statements: see section 16

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 or a doctor if you feel unwell.

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

Symptoms/effects	: 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 media appropriate for surrounding fire.
Unsuitable extinguishing media	: No information available.

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

5.2. Special hazards arising from the substance or mixture

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. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
--------------------------------	--

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.
------------------	---

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".
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 additional 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.
Storage temperature	: No information available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Hydrochloric acid (7647-01-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Hydrogen chloride
IOEL TWA	8 mg/m ³
IOEL TWA [ppm]	5 ppm
IOEL STEL	15 mg/m ³
IOEL STEL [ppm]	10 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	8 mg/m ³
MAK (OEL TWA) [ppm]	5 ppm
MAK (OEL STEL)	15 mg/m ³
MAK (OEL STEL) [ppm]	10 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	8 mg/m ³
GVI (OEL TWA) [2]	5 ppm
KGVI (OEL STEL)	15 mg/m ³
KGVI (OEL STEL) [ppm]	10 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	8 mg/m ³
Denmark - Occupational Exposure Limits	
OEL C	8 mg/m ³
OEL C [ppm]	5 ppm

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hydrochloric acid (7647-01-0)	
Estonia - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Finland - Occupational Exposure Limits	
HTP (OEL STEL)	7.6 mg/m ³ (anhydrous and in solution)
HTP (OEL STEL) [ppm]	5 ppm (anhydrous and in solution)
France - Occupational Exposure Limits	
VLE (OEL C/STEL)	7.6 mg/m ³ (restrictive limit)
VLE (OEL C/STEL) [ppm]	5 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	3 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	2 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Greece - Occupational Exposure Limits	
OEL TWA	7 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	7 mg/m ³
OEL STEL [ppm]	5 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	8 mg/m ³
CK (OEL STEL)	16 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	8 mg/m ³
OEL TWA [2]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Italy - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Latvia - Occupational Exposure Limits	

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hydrochloric acid (7647-01-0)	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	8 mg/m ³
IPRV (OEL TWA) [ppm]	5 ppm
TPRV (OEL STEL)	15 mg/m ³
TPRV (OEL STEL) [ppm]	10 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Malta - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	8 mg/m ³
TGG-15min (OEL STEL)	15 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	5 mg/m ³
NDSch (OEL STEL)	10 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	8 mg/m ³ (indicative limit value)
OEL TWA [ppm]	5 ppm (indicative limit value)
OEL STEL	15 mg/m ³ (indicative limit value)
OEL STEL [ppm]	10 ppm (indicative limit value)
OEL C [ppm]	2 ppm
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
Romania - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	15 mg/m ³
OEL STEL [ppm]	10 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	8 mg/m ³
NPHV (OEL TWA) [2]	5 ppm
NPHV (OEL C)	15 mg/m ³

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hydrochloric acid (7647-01-0)	
Slovenia - Occupational Exposure Limits	
OEL TWA	8 mg/m³ (anhydrous)
OEL TWA [ppm]	5 ppm (anhydrous)
OEL STEL	15 mg/m³ (anhydrous)
OEL STEL [ppm]	10 ppm (anhydrous)
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	7.6 mg/m³ (indicative limit value)
VLA-ED (OEL TWA) [2]	5 ppm (indicative limit value)
VLA-EC (OEL STEL)	15 mg/m³
VLA-EC (OEL STEL) [ppm]	10 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	3 mg/m³
NGV (OEL TWA) [ppm]	2 ppm
KTV (OEL STEL)	6 mg/m³
KTV (OEL STEL) [ppm]	4 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	2 mg/m³ (aerosol mist and gas)
WEL TWA (OEL TWA) [2]	1 ppm (aerosol mist and gas)
WEL STEL (OEL STEL)	8 mg/m³ (aerosol mist and gas)
WEL STEL (OEL STEL) [ppm]	5 ppm (aerosol mist and gas)
Norway - Occupational Exposure Limits	
Takverdi (OEL C) [1]	7 mg/m³
Takverdi (OEL C) [2]	5 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	3 mg/m³
MAK (OEL TWA) [2]	2 ppm
KZGW (OEL STEL)	6 mg/m³
KZGW (OEL STEL) [ppm]	4 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL C [ppm]	2 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
3,3'-Dimethylbenzidine (119-93-7)	
Austria - Occupational Exposure Limits	
TRK (OEL TWA)	0.03 mg/m³
TRK (OEL TWA) [ppm]	0.003 ppm
OEL chemical category	Skin notation, Group A2 Carcinogen
Belgium - Occupational Exposure Limits	
OEL chemical category	Skin
Croatia - Occupational Exposure Limits	

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

3,3'-Dimethylbenzidine (119-93-7)	
GVI (OEL TWA) [1]	0.03 mg/m³
GVI (OEL TWA) [2]	0.003 ppm
KGVI (OEL STEL)	0.12 mg/m³
KGVI (OEL STEL) [ppm]	0.012 ppm
OEL chemical category	Carcinogen Category 1B
Ireland - Occupational Exposure Limits	
OEL chemical category	Carc1B, Potential for cutaneous absorption
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	0.03 mg/m³ (inhalable fraction)
Portugal - Occupational Exposure Limits	
OEL chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure
Romania - Occupational Exposure Limits	
OEL chemical category	C1B, Skin notation
Slovenia - Occupational Exposure Limits	
OEL TWA	0.03 mg/m³ (inhalable fraction)
OEL TWA [ppm]	0.003 ppm
OEL STEL	0.12 mg/m³ (inhalable fraction)
OEL STEL [ppm]	0.012 ppm
OEL chemical category	Category 1B, Potential for cutaneous absorption
Sweden - Occupational Exposure Limits	
OEL chemical category	Carcinogen
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	0.03 mg/m³
MAK (OEL TWA) [2]	0.003 ppm
OEL chemical category	Category C1B carcinogen
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

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):

No additional information available.

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid
Colour	: White and grey
Odour	: Odourless
Odour threshold	: Not available
Relative evaporation rate (butylacetate=1)	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available
Solubility	: Water-miscible
Partition coefficient n-octanol/water (Log Kow)	: 3,3'-Dimethylbenzidine (119-93-7): 2.34
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable.
Particle size distribution	: Not applicable.

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Particle shape	: Not applicable.
Particle aspect ratio	: Not applicable.
Particle aggregation state	: Not applicable.
Particle agglomeration state	: Not applicable.
Particle specific surface area	: Not applicable.
Particle dustiness	: Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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 hazard classes as defined in Regulation (EC) No 1272/2008

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
---------------	------------

Hydrochloric acid (7647-01-0)

LD50 oral rat	238 - 277 mg/kg
LD50 dermal rabbit	> 5010 mg/kg
LC50 Inhalation - Rat	1.68 mg/L/1 h

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

LD50 oral rat	404 mg/kg
---------------	-----------

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Hydrochloric acid (7647-01-0)

IARC group	3 - Not classifiable
------------	----------------------

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

IARC group	2B - Possibly carcinogenic to humans
------------	--------------------------------------

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

11.2.2. Other information

Potential adverse human health effects and symptoms : No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

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. Results of PBT and vPvB assessment

o-Tolidine solution

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Other adverse effects : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Contaminated packaging : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Hydrochloric acid	Hydrogen chloride	7647-01-0	2806 10 00	Category 3		Annex I

15.1.2. National regulations

France

Occupational diseases

Code	Description
RG 15	Diseases caused by aromatic amines, their salts and derivatives, especially hydroxylated, halogenated, nitrated, nitrosated and sulphonated
RG 15 BIS	Allergic mechanism disorders caused by aromatic amines, their salts, their derivatives, especially hydroxylated, halogenated, nitrated, nitrosated, sulphonated and products containing them in the free state
RG 15 TER	Bladder proliferative lesions caused by the following aromatic amines and their salts: 4-aminobiphenyl and salts (xenylamine); 4,4'-diaminobiphenyl and salts (benzidine); 2-naphthylamine and salts; 4,4'-methylene bis (2-chloroaniline) and salts (MBOCA); 3,3'-dimethoxybenzidine and salts (o-dianisidine); 3,3'-dimethylbenzidine and salts (o-tolidine); 2-methylaniline and salts (o-toluidine); 4-chloro-2-methylaniline and salts (p-chloro-o-toluidine); auramine (technical quality); following dyes derived from benzidine: CI direct black 38, CI direct blue 6, CI direct brown 95.
RG 66	Occupational rhinitis and asthma

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Netherlands

SZW-lijst van kankerverwekkende stoffen : 3,3'-Dimethylbenzidine is listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Switzerland

Storage class (LK) : LK 10/12 - Liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

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

O-Tolidine solution

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
H302	Harmful if swallowed.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H350	May cause cancer.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

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.