

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

### 1.1. Product identifier

Product form : Mixture  
 Trade name : Environ™ LpH™ se Phenolic Disinfectant  
 Product code : 6412

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only  
 Use of the substance/mixture : Phenolic Disinfectant

#### 1.2.2. Uses advised against

No additional information available

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

Manufacturer:

STERIS Corporation  
 P. O. Box 147, St. Louis, MO 63166, US  
 Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)  
 US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

Supplier:

STERIS Ireland Limited  
 IDA Business and Technology Park  
 Tullamore  
 County Offaly  
 R35 X865  
 Ireland.  
 Product/Technical Information Phone No: +44 (0) 116 276 8636  
 Email: asksteris\_msds@steris.com

### 1.4. Emergency telephone number

Emergency number : +44 (0) 1895 622 639

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Skin Corr. 1A H314  
 Eye Dam. 1 H318  
 Carc. 2 H351  
 Repr. 2 H361  
 Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage  
 H351 – Suspected of causing cancer  
 H361 – Suspected of damaging fertility or the unborn child  
 H411 - Toxic to aquatic life with long lasting effects

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according to Regulation (EC) No. 453/2010

Precautionary statements (CLP) : P260 - Do not breathe mist, spray, vapours  
P280 - Wear protective gloves/protective clothing and eye/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  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P405 - Store locked up.  
P501 - Dispose of contents/container to Comply with applicable local, national and international regulation

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phosphoric acid	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6 (REACH No) 01-2119485924-24-0098	6 - 15,5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
2-Phenylphenol	(CAS No) 90-43-7 (EC no) 201-993-5 (EC index no) 604-020-00-6	5 - 10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	(CAS No) 68439-57-6 (EC no) 270-407-8;931-534-0 (REACH No) 01-2119513401-57-0024	5 - 10	Aquatic Chronic 3, H412
o-Benzyl-p-chlorophenol	(CAS No) 120-32-1 (EC no) 204-385-8 (EC index no) Self Classified	5 - 10	Carc. 2, H351 Repr. 2, 361f Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 1, H410
Sodium xylene sulfonate	(CAS No) 1300-72-7 (EC no) 215-090-9 (REACH No) 01-2119513350-56-0007	2,5 - 5	Eye Irrit. 2, H319
Isopropyl alcohol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH No) 01-2119457558-25-0094	5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Benzenesulfonic acid, C10-16-alkyl derivatives	(CAS No) 68584-22-5 (EC no) 271-528-9	1 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Eye Irrit. 2, H319

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Immediately get medical attention

First-aid measures after skin contact : Immediately flush skin with plenty of water for at least 15 minutes. Obtain medical attention if irritation persists

First-aid measures after eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Give water to drink if victim completely conscious/alert. Immediately call a POISON CENTER or doctor/physician

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

Symptoms/injuries : Corrosive to eyes and skin. Causes severe skin burns and eye damage

Symptoms/injuries after skin contact : Severe skin irritant. Effects of skin contact may include: irritation and burn feeling

Symptoms/injuries after eye contact : Causes serious eye damage

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

No additional information available

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand
- Unsuitable extinguishing media : Do not use a heavy water stream

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

- Fire hazard : Not sustaining combustion. Flash point (°C): 40
- Hazardous decomposition products in case of fire : Thermal decomposition generates : Fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides

#### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. Use water spray or fog for cooling exposed containers
- Protective equipment for firefighters : Use self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection

### SECTION 6: Accidental release measures

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

- General measures : Do not breathe fumes, vapors. Avoid contact with skin, eyes and clothes. Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear protective gloves and eye/face protection. For further information refer to section 8: Exposure-controls/personal protection
- Emergency procedures : Stop leak if safe to do so. Evacuate unnecessary personnel

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection
- Emergency procedures : Ventilate area

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

- Methods for cleaning up : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Leftovers: neutralize with sodium bicarbonate. Neutralise with dry sodium carbonate. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Read label before use. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe gas, fumes, vapour or spray.
- Hygiene measures : Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping. Do not eat, drink or smoke when using this product

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

- Technical measures : A washing facility/water for eye and skin cleaning purposes should be present. Provide adequate ventilation. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment. Comply with applicable regulations
- Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep out of reach of children. Store away from freezing (avoid freezing during storage). Keep container tightly closed. If frozen, thaw and mix thoroughly before use
- Incompatible materials : Strong oxidizing agents
- Storage area : Store in dry, cool, well-ventilated area
- Special rules on packaging : Correctly labelled

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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Isopropyl alcohol (67-63-0)		
USA IDLH	US IDLH (ppm)	2000 ppm (10% LEL)
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	999 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	500 ppm

Phosphoric acid (7664-38-2)		
USA IDLH	US IDLH (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

### 8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

Personal protective equipment

: Personal protective equipment should be selected based upon the conditions under which this product is handled or used. The following pictograms represent the minimum requirements for personal protective equipment. Protective clothing. Gloves. Protective goggles



Hand protection

: Wear rubber gloves

Eye protection

: Chemical goggles or safety glasses

Skin and body protection

: Wear suitable protective clothing

Respiratory protection

: Work in well-ventilated zones or use proper respiratory protection. Wear approved mask

Other information

: When using, do not eat, drink or smoke

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Clear
Colour	: Yellow to amber
Odour	: Mild odour. Characteristic
Odour threshold	: No data available
pH	: ca. 0,3
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 40 °C (104 °F)
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not sustaining combustion
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ca. 1,1 Specific Gravity

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Solubility	: Water: completely soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours

### 10.2. Chemical stability

Stable under normal conditions of use. Recommended storage temperature

### 10.3. Possibility of hazardous reactions

Not established

### 10.4. Conditions to avoid

Store in a cool dry place. Avoid Freezing. Direct sunlight. Extremely high or low temperatures

### 10.5. Incompatible materials

Strong oxidizers

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide. Nitrogen oxides. Corrosive vapours. Fume

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Environ™ LpH™ se Phenolic Disinfectant	
LD50 oral	5000 mg/kg
Sodium xylene sulfonate (1300-72-7)	
LD50 oral rat	7200 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE (oral)	7200,000 mg/kg bodyweight
2-Phenylphenol (90-43-7)	
LD50 oral rat	1049 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 0,949 mg/l (Exposure time: 1 h)
ATE (oral)	1049,000 mg/kg bodyweight
Isopropyl alcohol (67-63-0)	
LD50 oral rat	4396 mg/kg
LD50 dermal rabbit	12800 mg/kg
LC50 inhalation rat (ppm)	16000 ppm (Exposure time: 8 h)
ATE (oral)	4396,000 mg/kg bodyweight
ATE (dermal)	12800,000 mg/kg bodyweight
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
LD50 oral rat	530 mg/kg
LD50 dermal rat	530 mg/kg
ATE (oral)	530,000 mg/kg bodyweight
ATE (dermal)	530,000 mg/kg bodyweight
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)	
LD50 oral rat	2310 mg/kg
LD50 dermal rabbit	6300 mg/kg
ATE (oral)	2310,000 mg/kg bodyweight
ATE (dermal)	6300,000 mg/kg bodyweight

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<b>o-Benzyl-p-chlorophenol (120-32-1)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2500 mg/kg

<b>Phosphoric acid (7664-38-2)</b>	
LD50 oral rat	1530 mg/kg
LD50 dermal rabbit	2730 mg/kg
LC50 inhalation rat (mg/l)	> 850 mg/m <sup>3</sup> (Exposure time: 1 h)
ATE (oral)	1530,000 mg/kg bodyweight
ATE (dermal)	2730,000 mg/kg bodyweight

Skin corrosion/irritation	: Causes severe skin burns and eye damage pH: ca. 0,3
Serious eye damage/irritation	: Causes serious eye damage. Causes severe skin burns and eye damage Causes serious eye damage pH: ca. 0,3
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Toxic to aquatic organisms. Bird toxicity (reproduction). Toxic to fish. Toxic to invertebrates (Daphnia)
Ecology - water	: Toxic to aquatic life with long lasting effects

<b>Sodium xylene sulfonate (1300-72-7)</b>	
EC50 Daphnia 1	> 1020 mg/l 48 hours
NOEC (acute)	470 48 hours- daphnia

<b>2-Phenylphenol (90-43-7)</b>	
LC50 fishes 1	3,4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [Flow-through])
EC50 Daphnia 1	1 - 2,5 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 1	0,85 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC50 fish 2	2,74 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

<b>Isopropyl alcohol (67-63-0)</b>	
LC50 fishes 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [Flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	> 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [Static])
EC50 other aquatic organisms 2	> 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

<b>Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)</b>	
LC50 fishes 1	3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [Static])
EC50 Daphnia 1	2,9 mg/l (Exposure time: 48 h - Species: Daphnia magna)

<b>Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)</b>	
LC50 fishes 1	1,0 - 10,0 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [Static])
LC50 fish 2	12,2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [Semi-static])

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Phosphoric acid (7664-38-2)	
LC50 fishes 1	3 - 3,5 mg/l (Exposure time: 96 h - Species: Gambusia affinis)
EC50 Daphnia 1	4,6 mg/l (Exposure time: 12 h - Species: Daphnia magna)

### 12.2. Persistence and degradability

Environ™ LpH™ se Phenolic Disinfectant	
Persistence and degradability	May cause long-term adverse effects in the environment

### 12.3. Bioaccumulative potential

Environ™ LpH™ se Phenolic Disinfectant	
Bioaccumulative potential	Not established

2-Phenylphenol (90-43-7)	
Log Pow	3,18

Isopropyl alcohol (67-63-0)	
Log Pow	0,05 (at 25 °C)

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Log Pow	2 (at 23 °C)

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations
Additional information	: Empty containers should be thoroughly rinsed with large quantities of clean water. Dispose of empty containers and wastes safely. Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapours are flammable
Ecology - waste materials	: No additional information available

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No	: 1903
UN-No.(IATA)	: 1903
UN-No. (IMDG)	: 1903

### 14.2. UN proper shipping name

Proper Shipping Name	: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (o-phenylphenol and o-benzyl-p-chlorophenol)
Transport document description	: UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (o-phenylphenol and o-benzyl-p-chlorophenol), 8, III, (E)

### 14.3. Transport hazard class(es)

Class (UN)	: 8
Class (IATA)	: 8
Class (IMDG)	: 8
Hazard labels (UN)	: 8



### 14.4. Packing group

Packing group (UN)	: III
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### 14.5. Environmental hazards

Dangerous for the environment



Other information : No supplementary information available

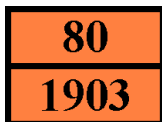
### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80

Classification code (UN) : C9

Orange plates :



Special provision (ADR) : 274

Transport category (ADR) : 3

Tunnel restriction code : E

Limited quantities (ADR) : 5L

Excepted quantities (ADR) : E1

EAC code : 2X

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional 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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Revision Date : 12/03/2018

Sources of Key data : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Other information : None

Full text of H- and EUH-phrases::

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2



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Carc. 2	Carcinogenicity, Category 2
Repr. 2	Toxic to Reproduction, Category 2
STOT SE 3	Specific target organ toxicity (single exposure), Category 3
H225	Highly flammable liquid and vapour
H290	May be corrosive to metals
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

*The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.*