

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

1.1. Product identifier

Product form : Mixture
 Trade name : Environ™ Vesphene™ st Sterile Phenolic Disinfectant
 Product code : 6413

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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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]
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
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
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	3 - 7	Aquatic Chronic 3, H412
Potassium hydroxide	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 019-002-00-8 (REACH No) 01-2119487136-33-0057	3 - 7	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
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	1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Sodium xylene sulfonate	(CAS No) 1300-72-7 (EC no) 215-090-9 (REACH No) 01-2119513350-56-0007	1 - 2	Eye Irrit. 2, H319
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	0,5 - 1,5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

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

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

No additional information available

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
- 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

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

Toxic to aquatic life. 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. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Neutralise spill carefully with any weak acid and flush remainder with plenty of water. Consult hazardous waste contractor for disposal of large amounts

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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

Isopropyl alcohol (67-63-0)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA IDLH	US IDLH (ppm)	2000 ppm (10% LEL)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	980 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	1225 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
United Kingdom	WEL TWA (mg/m ³)	999 mg/m ³
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m ³)	1250 mg/m ³
United Kingdom	WEL STEL (ppm)	500 ppm

Potassium hydroxide (1310-58-3)		
Italy - Portugal - USA ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³

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 : Amber to red
- Odour : Mild odor. Characteristic
- Odour threshold : No data available
- pH : ca. 12

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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	: 58 °C (137 °F)
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour
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
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

Carbon monoxide. 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

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LD50 oral	5000 mg/kg
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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

Phosphoric acid (7664-38-2)

LD50 oral rat	1530 mg/kg
LD50 dermal rabbit	2730 mg/kg
LC50 inhalation rat (mg/l)	> 850 mg/m ³ (Exposure time: 1 h)
ATE (oral)	1530,000 mg/kg bodyweight
ATE (dermal)	2730,000 mg/kg bodyweight

2-Phenylphenol (90-43-7)

LD50 oral rat	1049 mg/kg
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2-Phenylphenol (90-43-7)	
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

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

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

Potassium hydroxide (1310-58-3)	
LD50 oral rat	214 mg/kg
ATE (oral)	500,000 mg/kg bodyweight

Skin corrosion/irritation	: Causes severe skin burns and eye damage pH: ca. 12
Serious eye damage/irritation	: Causes serious eye damage. Causes severe skin burns and eye damage Causes serious eye damage pH: ca. 12
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

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

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)

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2-Phenylphenol (90-43-7)	
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)

Isopropyl alcohol (67-63-0)	
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)

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)	
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])

Potassium hydroxide (1310-58-3)	
LC50 fishes 1	80 mg/l (Exposure time: 96 h - Species: Gambusia affinis [Static])

12.2. Persistence and degradability

Environ™ Vesphene™ st Sterile Phenolic Disinfectant	
Persistence and degradability	May cause long-term adverse effects in the environment

12.3. Bioaccumulative potential

Environ™ Vesphene™ st Sterile 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)

Potassium hydroxide (1310-58-3)	
Log Pow	0,65

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
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.

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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

14.5. Environmental hazards

Dangerous for the environment :

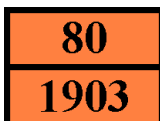


Other information : No supplementary information available

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 : 11/29/2018

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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- phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, 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
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
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.