

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## HYPEROX

Version 2.0      Revision Date: 23.09.2020      SDS Number: 103000026318      Date of last issue: 31.07.2019  
Country / Language: GB / EN(GB)

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

#### 1.1 Product identifier

Trade name : HYPEROX  
Product code : 62261573

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

Use of the Sub-stance/Mixture : Oxidizing agents, Industrial use

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

Supplier : Antec International Limited  
Windham Road  
Chilton Industrial Estate  
CO10 2XD Sudbury / Suffolk, United Kingdom  
Telephone : +4922188852288  
E-mail address of person responsible for the SDS : infosds@lanxess.com

#### 1.4 Emergency telephone number

0870 190 6777. National Chemical Emergency Centre

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Organic peroxides, Type F	H242: Heating may cause a fire.
Corrosive to metals, Category 1	H290: May be corrosive to metals.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin corrosion, Sub-category 1A	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H242 Heating may cause a fire. H290 May be corrosive to metals. H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH071 Corrosive to the respiratory tract.
Precautionary statements	:	<b>Prevention:</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. <b>Response:</b> P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P391 Collect spillage.

Hazardous components which must be listed on the label:

hydrogen peroxide  
acetic acid  
peracetic acid  
Sulfonic acids, C13-17-sec-alkane, sodium salts

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
hydrogen peroxide	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22	Ox. Liq. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335; Respiratory system Aquatic Chronic 3; H412	>= 25 - < 30
acetic acid	64-19-7 200-580-7 607-002-00-6 01-2119475328-30	Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 5 - < 10
peracetic acid	79-21-0 201-186-8 607-094-00-8	Flam. Liq. 3; H226 Org. Perox. D; H242 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335; Respiratory system Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Aquatic Acute: 1 M-Factor Aquatic Chronic: 10	>= 3 - < 5
Sulfonic acids, C13-17-sec-alkane, sodium salts	85711-69-9 288-330-3	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 3

#### Specific Concentration limits (Regulation EC) No 1272/2008)

Chemical name	CAS-No. EC-No.	Classification	Concentration (%)
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hydrogen peroxide	7722-84-1 231-765-0	Ox. Liq.1; H271 Ox. Liq.2; H272 Skin Corr.1A; H314 Skin Corr.1B; H314 Skin Irrit.2; H315 Eye Dam.1; H318 Eye Irrit.2; H319 STOT SE3; H335	$\geq 70\%$ 50 - < 70 % $\geq 70\%$ 50 - < 70 % 35 - < 50 % 8 - < 50 % 5 - < 8 % $\geq 35\%$
acetic acid	64-19-7 200-580-7	Skin Corr.1A; H314 Skin Corr.1B; H314 Skin Irrit.2; H315 Eye Irrit.2; H319	$\geq 90\%$ 25 - < 90 % 10 - < 25 % 10 - < 25 %
peracetic acid	79-21-0 201-186-8	STOT SE3; H335	$\geq 1\%$

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.

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Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

None known.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

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Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For personal protection see section 8.  
For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : < 40 °C

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

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Specific use(s) : No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m <sup>3</sup>	GB EH40
		STEL	2 ppm 2.8 mg/m <sup>3</sup>	GB EH40
acetic acid	64-19-7	TWA	10 ppm 25 mg/m <sup>3</sup>	2017/164/EU
Further information	Indicative			
		STEL	20 ppm 50 mg/m <sup>3</sup>	2017/164/EU
Further information	Indicative			
		STEL	20 ppm 50 mg/m <sup>3</sup>	GB EH40
		TWA	10 ppm 25 mg/m <sup>3</sup>	GB EH40

#### 8.2 Exposure controls

##### Engineering measures

This information is not available.

##### Personal protective equipment

Eye protection : Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

##### Hand protection

Material : Polychloroprene - CR  
Wearing time : < 60 min

Material : Nitrile rubber - NBR  
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Filter type : Recommended Filter type:  
ABEK-P3-filter

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### SECTION 9: Physical and chemical properties

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

Appearance : Liquid

Colour : colourless

Odour : Pungent smelling.

Odour Threshold : No data available

pH : 0.2  
Concentration: 100 %

Melting point/freezing point : -61 - -60 °C

Boiling point/boiling range : Decomposition: Decomposes below the boiling point.

Flash point : > 96 °C  
Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.12 g/cm<sup>3</sup> (20 °C)  
Method: OECD Test Guideline 109

Solubility(ies) : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : 435 °C

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Decomposition temperature : No data available

### Viscosity

Viscosity, kinematic : 1.247 mm<sup>2</sup>/s (20 °C)  
Method: OECD Test Guideline 114

Explosive properties : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Self-Accelerating decomposition temperature (SADT) : 70 °C  
Method: UN-Test H.2

Metal corrosion rate : Corrosive to metals

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Potential for exothermic hazard  
Potential for exothermic hazard If contaminated with impurities or incompatible substances, self-accelerated exothermic decomposition may occur. Decomposition in confined spaces and pipes may lead to over-pressure and bursting. Heating can release hazardous gases. Oxygen formation is possible. Decomposes on heating.

### 10.4 Conditions to avoid

Conditions to avoid : Exposure to sunlight.  
Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Incompatible with bases.  
Metals  
Reducing agents  
Powdered metal salts  
Combustible substances  
Flammable materials  
organic solvent

### 10.6 Hazardous decomposition products

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Hazardous decomposition products : acetic acid

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

###### Product:

Acute oral toxicity : LD50 (Rat, female): 1,859 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 4.08 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit, male and female): 1,147 mg/kg

###### Components:

###### **hydrogen peroxide:**

Acute oral toxicity : LD50 (Rat): > 500 mg/kg

Acute inhalation toxicity : LC0 (Rat, male and female): > 0.17 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rat): 4,060 mg/kg

###### **acetic acid:**

Acute oral toxicity : LD50 (Rat, male and female): 3,310 mg/kg

Acute inhalation toxicity : LC50 (Rat): 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 1,060 mg/kg

###### **peracetic acid:**

Acute oral toxicity : LD50 (Rat, male and female): 73.2 mg/kg  
Method: US EPA Test Guideline OPP 81-1

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.

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### **Sulfonic acids, C13-17-sec-alkane, sodium salts:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

### **Skin corrosion/irritation**

#### **Components:**

##### **hydrogen peroxide:**

Assessment: Irritating to skin.

##### **acetic acid:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Causes severe burns.

##### **peracetic acid:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Causes severe burns.

### **Sulfonic acids, C13-17-sec-alkane, sodium salts:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Irritating to skin.

### **Serious eye damage/eye irritation**

#### **Components:**

##### **hydrogen peroxide:**

Assessment: Risk of serious damage to eyes.

##### **acetic acid:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Risk of serious damage to eyes.

##### **peracetic acid:**

Assessment: Risk of serious damage to eyes.

### **Sulfonic acids, C13-17-sec-alkane, sodium salts:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Risk of serious damage to eyes.

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### Respiratory or skin sensitisation

#### Product:

Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.

#### Components:

##### hydrogen peroxide:

Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.

##### acetic acid:

Assessment: Did not cause sensitisation on laboratory animals.

##### peracetic acid:

Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.

##### Sulfonic acids, C13-17-sec-alkane, sodium salts:

Exposure routes: Skin contact  
Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

#### Components:

##### acetic acid:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Rat (male and female)  
Application Route: Inhalation

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Method: Regulation (EC) No. 440/2008, Annex, B.12  
Result: negative  
GLP: yes

### **peracetic acid:**

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxicological tests.

Genotoxicity in vivo : Species: Mammalian-Animal  
Method: Regulation (EC) No. 440/2008, Annex, B.22  
Result: negative

### **Sulfonic acids, C13-17-sec-alkane, sodium salts:**

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxicological tests.

### **Reproductive toxicity**

#### **Components:**

##### **acetic acid:**

Effects on foetal development : Species: Rabbit, female  
Application Route: Oral  
Dose: 1600 milligram per kilogram  
Duration of Single Treatment: 13 d  
General Toxicity Maternal: NOAEL: 1,600 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 1,600 mg/kg body weight  
Method: Regulation (EC) No. 440/2008, Annex, B.31  
Result: No adverse effects

### **STOT - single exposure**

#### **Components:**

##### **hydrogen peroxide:**

Assessment: May cause respiratory irritation.

##### **peracetic acid:**

Assessment: May cause respiratory irritation.

### **Further information**

#### **Product:**

Remarks: No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **hydrogen peroxide:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 2.4 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Remarks: Fresh water

Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Remarks: salt water

NOEC (Skeletonema costatum (marine diatom)): 0.63 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Remarks: salt water

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.63 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Fresh water

##### **acetic acid:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 300.82 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 300.82 mg/l  
Exposure time: 48 h  
Test Type: static test

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Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Fresh water

Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): > 300.82 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Analytical monitoring: no  
Method: ISO 10253  
GLP: yes  
Remarks: salt water

Toxicity to microorganisms : NOEC (Pseudomonas putida): 1,150 mg/l  
Exposure time: 16 h  
GLP:  
Remarks: Fresh water

### peracetic acid:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.53 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.73 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Fresh water

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.16 mg/l  
Exposure time: 72 h  
Method: OPP 123-3 (Algal Toxicity, Tiers I and II)  
GLP: yes  
Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.061 mg/l  
Exposure time: 72 h  
Method: OPP 123-3 (Algal Toxicity, Tiers I and II)  
GLP: yes  
Remarks: Fresh water

M-Factor (Short-term (acute) aquatic hazard) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0.002 mg/l  
Exposure time: 33 Days  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 210

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GLP: yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.012 mg/l  
Exposure time: 21 Days  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: Fresh water

M-Factor (Long-term (chronic) aquatic hazard) : 10

### **Sulfonic acids, C13-17-sec-alkane, sodium salts:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 8.4 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 12.5 mg/l  
Exposure time: 24 h  
Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 96 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 5.3 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : EC50: 2.9 mg/l  
Exposure time: 21 Days  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 204  
Remarks: Fresh water

## 12.2 Persistence and degradability

### Components:

#### **hydrogen peroxide:**

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

#### **acetic acid:**

Biodegradability : Result: Readily biodegradable.



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### peracetic acid:

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

### Sulfonic acids, C13-17-sec-alkane, sodium salts:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

## 12.3 Bioaccumulative potential

### Components:

#### hydrogen peroxide:

Partition coefficient: n-octanol/water : log Pow: -1.1

#### acetic acid:

Partition coefficient: n-octanol/water : log Pow: -0.17

#### peracetic acid:

Partition coefficient: n-octanol/water : log Pow: -0.46 (25 °C)  
pH: 5  
Method: OPPTS 830.7550

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.
- 

### SECTION 14: Transport information

#### 14.1 UN number

- ADN : UN 3149  
ADR : UN 3149  
RID : UN 3149  
IMDG : UN 3149  
IATA : UN 3149

#### 14.2 UN proper shipping name

- ADN : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED  
ADR : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED  
RID : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED  
IMDG : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED  
IATA : Hydrogen peroxide and peroxyacetic acid mixture stabilized

#### 14.3 Transport hazard class(es)

- ADN : 5.1  
ADR : 5.1  
RID : 5.1  
IMDG : 5.1  
IATA : 5.1

#### 14.4 Packing group

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### ADN

Packing group : II  
Classification Code : OC1  
Hazard Identification Number : 58  
Labels : 5.1      8



### ADR

Packing group : II  
Classification Code : OC1  
Hazard Identification Number : 58  
Labels : 5.1      8



### RID

Packing group : II  
Classification Code : OC1  
Hazard Identification Number : 58  
Labels : 5.1      8



### IMDG

Packing group : II  
Labels : 5.1      8  
:



### IATA (Cargo)

Packing instruction (cargo aircraft) : 554: 5.00 L  
Packing group : II  
Labels : 5.1      8  
:





### IATA (Passenger)

Packing instruction (passen- : 550: 1.00 L

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ger aircraft)  
Packing group : II  
Labels : 5.1      8  
:  
:  
:  
      

**14.5 Environmental hazards**

**ADN**  
Environmentally hazardous : yes



**ADR**  
Environmentally hazardous : yes



**RID**  
Environmentally hazardous : yes



**IMDG**  
Marine pollutant : yes



**IATA (Passenger)**  
Environmentally hazardous : no

**IATA (Cargo)**  
Environmentally hazardous : yes



**14.6 Special precautions for user**

Hazard statements : Oxidizing agent.  
Corrosive.

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Environmentally hazardous substance.  
Has an intense odour.  
Keep away from sources of heat.  
Keep away from foodstuffs, acids and alkalis.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

- International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list: 3
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	50 t	200 t
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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### 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### Full text of H-Statements

H226	: Flammable liquid and vapour.
H242	: Heating may cause a fire.
H271	: May cause fire or explosion; strong oxidizer.
H272	: May intensify fire; oxidizer.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H312	: Harmful 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.
H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
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.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Org. Perox.	: Organic peroxides
Ox. Liq.	: Oxidizing liquids
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
2017/164/EU	: Commission Directive (EU) 2017/164 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
2017/164/EU / STEL	: Short term exposure limit
2017/164/EU / TWA	: Limit Value - eight hours
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

### Further information

Classification of the mixture:

Classification procedure:

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Org. Perox. F	H242	Based on product data or assessment
Met. Corr. 1	H290	Based on product data or assessment
Acute Tox. 4	H302	Based on product data or assessment
Acute Tox. 4	H332	Based on product data or assessment
Acute Tox. 4	H312	Based on product data or assessment
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 1	H410	Calculation method

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.