

Safety Data Sheet

Protox HP 18

Issued: 08/01/2020
Version: 1.0.0

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

1.1. Product identifier

Trade name: Protox HP 18

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

Recommended uses: Desinfection, removal of mould in buildings. Only for professional use.
Use biocides safely. Always read the label and product information before use. This safety data sheet contains general information concerning the chemical, but specific instructions and guidelines are indicated on the product label and in the instructions for use.

1.3. Details of the supplier of the safety data sheet

Company: Protox
Address: Fabriksvej 19
Zip code: DK-6000
City: Kolding
Country: DENMARK
E-mail: info@protox.dk
Phone: + 45 75 50 40 22

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Eye Dam. 1;H318
Most serious harmful effects: Causes serious eye damage.

2.2. Label elements

Pictograms



Signal word: Danger

Contains

Substance: Hydrogenperoxide 20,1%

H-phrases

H318 Causes serious eye damage.

P-phrases

P280 Wear eye protection/face protection.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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Supplemental information

Contains a biocidal product: Hydrogenperoxide 201 g/l (20,1%) and didecyldimethylammoniumchloride <2,5 g/l (<0,25%)

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Hydrogen peroxide	7722-84-1	231-765-0	01-2119485845-22	20.1%		Ox. Liq. 1;H271 Acute Tox. 4;H302 Skin Corr. 1A;H314 Eye Dam. 1;H318 Acute Tox. 4;H332 STOT SE 3;H335 Aquatic Chronic 3;H412
didecyldimethylammonium chloride	7173-51-5	230-525-2		< 0.25%		Acute Tox. 3;H301 Skin Corr. 1B;H314 Aquatic Acute 1;H400 Aquatic Chronic 2;H411

Please see section 16 for the full text of H-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Seek fresh air. Seek medical advice in case of persistent discomfort.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.
Skin contact:	Immediately remove contaminated clothing. Wash the skin with water. Seek medical advice in case of persistent discomfort.
Eye contact:	Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.
General:	When obtaining medical advice, show the safety data sheet or label.

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

Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.

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

Treat symptoms. No special immediate treatment required.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:	The product is not directly flammable. Choose extinguishing agents based on the surrounding fire. Use water or water mist to cool non-ignited stock.
Unsuitable extinguishing media:	Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapour and fumes - seek fresh air. Explosive mixtures may form with air when heated/exposed to fire.

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5.3. Advice for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Stop leak if this can be done without risk. Wear safety goggles/face protection. Wear gloves.

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The product should be used under well-ventilated conditions and preferably under process ventilation. Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Storage temperature: #Not available# °C. Do not store with the following: Reducing agents/ Metals/ Alkalies.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m3	fiber/cm3	Comments	Remarks
Hydrogen peroxide	-	1	1.4			

Legal basis: EH40/2005 Workplace exposure limits. Last amended August 2018.

PNEC

Hydrogen peroxide, cas-no 7722-84-1				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,0126 mg/l			
PNEC aqua (marine water)	0,0126 mg/l			

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PNEC aqua (intermittent releases)	0,0138 mg/l			
PNEC STP (wastewater-treatment facilities)	4,66 mg/l			
PNEC sediment (freshwater)	0,047 mg/kg			
PNEC sediment (marine water)	0,047 mg/kg			
PNEC soil	0,0023 mg/kg			

DNEL - workers

Hydrogen peroxide, cas-no 7722-84-1

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - local effects)	3 mg/m ³				
Inhalation DNEL (long-term exposure - local effects)	1,4 mg/m ³				

DNEL - general population

Hydrogen peroxide, cas-no 7722-84-1

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - local effects)	1,93 mg/m ³				
Dermal DMEL (long-term exposure - local effects)	0,21 mg/m ³				

8.2. Exposure controls

Appropriate engineering controls:

Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection:

Wear safety goggles/face protection. Eye protection must conform to EN 166.

Personal protective equipment, hand protection:

Wear gloves. Neoprene rubber/ Nitrile rubber. Gloves must conform to EN 374. Penetration time: >8 hours. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection:

In case of insufficient ventilation, wear respiratory protective equipment. Filter type: B. / P. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls:

Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Colourless
Odour	Characteristic
Solubility	Miscible with the following: Water.

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Explosive properties	No data	
Oxidising properties	No data	
Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	3.5 - 4	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flash Point	No data	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	
Odour threshold	No data	

9.2 Other information

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Reducing agents/ Metals/ Alkalis.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid direct sunlight. Avoid heating and contact with ignition sources.

10.5. Incompatible materials

Avoid contact with the following: Reducing agents/ Metals/ Alkalis.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		418mg/kg			

Ingestion may cause discomfort. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

Hydrogen peroxide, cas-no 7722-84-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 2000mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available.
Skin corrosion/irritation:	May cause slight irritation. The product does not have to be classified. Test data are not available.
Serious eye damage/eye irritation:	Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	The product does not have to be classified. Test data are not available.
Reproductive toxicity:	The product does not have to be classified. Test data are not available.
Single STOT exposure:	Inhalation of vapours may cause irritation to the upper airways. The product does not have to be classified. Test data are not available.
Repeated STOT exposure:	The product does not have to be classified. Test data are not available.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	None known.

SECTION 12: Ecological information

12.1. Toxicity

Hydrogen peroxide, cas-no 7722-84-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	16.4mg/l			
Crustacea	Daphnia pulex		48hEC50	2.4mg/l			
Bacteria	Name of species not specified	30 min	EC50	466mg/l			
Algae	Skeletonema costatum		72hNOEC	0.63mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

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Hydrogen peroxide, cas-no 7722-84-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
				-1.57			

No bioaccumulation expected.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water.

If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

Empty, cleansed packaging should be disposed of for recycling.

Category of waste: EWC code: Depends on line of business and use, for instance 16 03 03* inorganic wastes containing hazardous substances
Absorbent/cloth contaminated with the product: EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances.

SECTION 14: Transport information

14.1. UN-No.:	Not applicable.	14.4. Packing group:	Not applicable.
14.2. UN proper shipping name:	Not applicable.	14.5. Environmental hazards:	Not applicable.
14.3. Transport hazard class(es):	Not applicable.		

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions:

Covered by:
Regulation (EU) of the European Parliament and of the Council concerning the making available on the market and use of biocidal products. (as subsequently amended)

Council Directive (EC) on the protection of young people at work.

Batch number and expiration date appears from the packaging.

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15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	08/01/2020	Bureau Veritas HSE / MPE	New

Abbreviations:

PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration

Training advice:

A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method:

Calculation based on the hazards of the known components. Expert judgement.

List of relevant H-statements

H271	May cause fire or explosion, strong oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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