

Virusafe

Issued: 2020-10-23

Version: 2

Reviewed on: 2020-11-04

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**SECTION 1. Identification of the Substance/Mixture and of the Company/Undertaking****1.1 PRODUCT NAME****Virusafe****PRODUCT PACKAGE****1.000 ml****1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

Surface disinfection. Biocide, product type 2.

**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET****Supplier:** FrostPharma AB**Address:** Berga Backe 2, 182 53 Danderyd, Sweden**Telephone:** +46-(0)8 -24 36 60**E-mail:** info@frostpharma.com**Webpage:** www.frostpharma.com**1.4 EMERGENCY TELEPHONE**

Swedish Poisons Information Centre 112 (acute), 010-456-67-00 (working hours)

**SECTION 2. Hazards Identification****2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE****CLP (Regulation (EC) No 1272/2008): -****2.2 LABEL ELEMENTS****Labeling CLP (REGULATION (EC) No 1272/2008)****Pictograms:**

-

**Signal word:**

-

**Hazard statements:**

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**Precautionary statements:**

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**Contains:** Hydrogen peroxide 3 %**Other Information:**

EUH210 – Safety data sheet available on request.

**2.3 OTHER HAZARDS**

The product does not meet the criteria for PBT (persistent / bioaccumulative / toxic substances) or vPvB (very persistent / highly bioaccumulative substances).

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**SECTION 3. Composition/Information on Ingredients**
**3.2 Mixtures**
**ACCORDING TO CLP (REGULATION (EC) No 1272/2008)**

Substance name	EU no	Reg. no	CAS no	Conc.	Pictogram	H-statement(s)*	Category
Hydrogen peroxide	231-765-0	01-21194 85845-22	7722-84-1	3 %	GHS03 GHS05 GHS07 Danger	H271 H302 H314 H332 H335	Ox. Liq. 1 Acute Tox. 4 Skin Corr. 1A Acute Tox. 4 STOT SE 3

\* For full-text H-phrases, see section 16.

**SECTION 4. First Aid Measures**
**4.1 DESCRIPTION OF FIRST AID MEASURES**
**INHALATION**

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if the product is suspected to have entered the lungs.

**SKIN CONTACT**

In case of persistent irritation effects, contact medical personal. Temporary tingling when initially used and white stains on skin is not dangerous and is a transient effect.

**EYE CONTACT**

Flush immediately with plenty of water for several minutes, keeping eyelids open. If any symptom persists, consult a physician.

**INGESTION**

If victim is conscious and alert, rinse mouth and give milk or water to drink. Get medical aid if needed.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

No hazardous effects are expected.

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

No special requirements.

**SECTION 5. Firefighting Measures**
**5.1 EXTINGUISHING MEDIA**

Use agent most appropriate to extinguish surrounding fire. Use water spray, dry chemical, carbon dioxide or chemical foam.

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

The product as such is not flammable. Combustion can emit irritating gases, such as oxides of carbon. Do not inhale smoke. Drain hazardous fumes with water.

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**5.3 ADVICE FOR FIREFIGHTERS**

In the event of fire, wear complete protective equipment for chemical fires, including breathing apparatus self-contained breathing apparatus.

**SECTION 6. Accidental Release Measures****6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Protective equipment, see Section 8.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Contact the emergency services for larger emissions.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Absorb spill with dispensible material and dispose in line with local laws and regulations. Flush spillage area with water if applicable. See Section 13.

**6.4 REFERENCE TO OTHER SECTIONS**

See Sections 8 and 13 for information concerning protective equipment and waste treatment methods.

**SECTION 7. Handling and Storage****7.1 PRECAUTIONS FOR SAFE HANDLING**

Not normally required. Use safety goggles if any risk for splashes in the eyes.

**7.2 CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES**

Store in a cool, dry place in a well-ventilated place in a well-sealed package. Store in original container. Avoid extreme temperatures and direct sunlight. Optimum storage temperature is 15-20°C, but it can be stored from 0°C to 40°C.

**7.3 SPECIFIC END USE(S)**

See EWC-code under Section 13.

**SECTION 8. Exposure Controls/Personal Protection****8.1 CONTROL PARAMETERS****OCCUPATIONAL EXPOSURE LIMITS (according to 2000/39/EG and 2006/15/EG)**

No OEL values are available for the product.

**DNEL**

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**PNEC****Hydrogen peroxide:**

10 µg/L aquatic environment

4,66 mg/L microorganisms

>4,66 mg/L active sludge

1,2 µg/kg (wet weight) soil

**8.2 INDIVIDUAL PROTECTION MEASURES****RESPIRATORY PROTECTION**

Not required.

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**HAND PROTECTION**

Not normally required.

**EYE/FACE PROTECTION**

Not normally required. Use safety goggles if any risk for splashes in the eyes.

**OTHER PROTECTIVE EQUIPMENT**

Not required.

**HYGIENE MEASURES**

Good general ventilation should be sufficient to control airborne levels but mechanical exhaust may be required.

**SECTION 9. Physical and Chemical Properties****9.1 INFORMATION ON FUNDAMENTAL PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form</b>	Liquid
<b>Color</b>	Colourless
<b>Odour</b>	None
<b>Odour threshold</b>	Not available
<b>pH (20°C)</b>	Ca 2,4
<b>Boiling point</b>	108°C
<b>Determination</b>	Not available
<b>Freezing point</b>	-33°C
<b>Vapour pressure</b>	299 Pa (25°C)
<b>Vapour density (Air = 1)</b>	Not available
<b>Evaporation rate</b>	>1
<b>Density (20°C)</b>	Ca 1,013 g/cm <sup>3</sup>
<b>Viscosity (dynamic)</b>	1,81 mPa.s (0°C), 1,10 Pa.s (20°C), 1,249 (20°C) 100 %
<b>Specific gravity</b>	Not available
<b>Solubility</b>	Soluble in water.
<b>Log Pow</b>	-1,57 (100 %)
<b>Coefficient of water/oil distribution:</b>	Not available
<b>Oxidising property</b>	Not available
<b>Explosive property</b>	Not explosive
<b>Decomposition</b>	Not available
<b>Temperature</b>	
<b>Active content hydrogen peroxide</b>	35,4 g/l

**9.2 OTHER INFORMATION**

No other information available.

**SECTION 10. Stability and Reactivity**

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**10.1 REACTIVITY**

The product is stable if stored in line with recommended storage conditions.

**10.2 CHEMICAL STABILITY**

The product is chemically stable if stored in line with recommended storage conditions.

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS**

The product is chemically stable if stored in line with recommended storage conditions.

**10.4 CONDITIONS TO AVOID**

Extreme temperatures.

**10.5 INCOMPARTIBLE MATERIALS**

Not known.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS**

Combustion can emit irritating gases, such as oxides of carbon.

<b>SECTION 11. Toxicological Information</b>
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**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

	<b>ACUTE EFFECTS</b>	<b>CHRONIC EFFECTS</b>
<b>SKIN CONTACT</b>	-	-
<b>EYE CONTACT</b>	-	-
<b>INHALATION</b>	-	-
<b>INGESTION</b>	-	-

**ACUTE TOXICITY**

Toxicological data for the product is not available. This information below is regarding the pure substance.

**TOXICOLOGICAL DATA FOR ACTIVE SUBSTANCE**
**Hydrogen peroxide:**

LC50 Inhalation Rat 4h: 2 mg/l (harmful if inhaled)

LD50 Oral Rat: 1518 mg/kg Body Weight (harmful if ingested)

LD50 Dermal Rat: 3000 mg/kg Body Weight (non-acute toxic)

Hydrogen peroxide primarily causes irritation of the mucous membranes. Hydrogen peroxide has mutagenic activity in laboratory tests and some carcinogenic activity in experimental animals (A&H 1989:31). The degree of damage depends on the concentration. In concentrations above 35 %, wounds may appear after skin contact.

- |                                       |   |
|---------------------------------------|---|
| (a) acute toxicity                    | Based on available data, the classification criteria are not met. |
| (b) skin corrosion/irritation         | Based on available data, the classification criteria are not met. |
| (c) serious eye damage/irritation     | Based on available data, the classification criteria are not met. |
| (d) respiratory or skin sensitisation | Based on available data, the classification criteria are not met. |

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(e) germ cell mutagenicity	Based on available data, the classification criteria are not met.
(f) carcinogenicity	Based on available data, the classification criteria are not met.
(g) reproductive toxicity	Based on available data, the classification criteria are not met.
(h) STOT-single exposure	Based on available data, the classification criteria are not met.
(i) STOT-repeated exposure	Based on available data, the classification criteria are not met.
(j) aspiration hazard	Based on available data, the classification criteria are not met.
Likely routes of exposure	Contact with skin and eyes or by inhalation of spray.

Symptoms related to the physical, chemical and toxicological characteristics  
Not classified as hazardous to human health.

Delayed and immediate effects as well as chronic effects from short and long-term exposure  
None known.

Other information	Calculations according to the precepts of the Classification, Labelling and Packaging Regulation (EC1272/2008 as amended) show this product to be Not classified as hazardous to human health.
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**SECTION 12. Ecological Information****12.1 TOXICITY**

Not harmful to aquatic life. This information below is regarding the pure substance.

**ECOTOXICOLOGICAL DATA FOR ACTIVE SUBSTANCE****Hydrogen peroxide:**

LC50 Fish 96h: 16,4 mg/l (Art: Pimephales promelas) (hazardous)

EC50 Daphnia 48h: 2,4 mg/l (Art: D. pulex) (toxic)

IC50 Algae 72h: 2,5 mg/l (Art: Chlorella vulgaris) (toxic)

**Accumulation**

Log Pow: -1,5 (no bioaccumulation is expected)

Hydrolyses rapidly in the environment (half-life in fresh water 8-31h; wastewater minutes-hours; sludge for a few seconds) and is therefore expected to have little toxic effect in the environment.

**ECOTOXICITY FOR INGREDIENTS**

Ecotoxicological data for the ingredients is not available

**12.2 PERSISTENCE AND BIODEGRADATION**

Expected to be readily biodegradable.

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**12.3 BIOACCUMULATIVE POTENTIAL**

Does not contain any bioaccumulative substances.

**12.4 MOBILITY IN SOIL AND WATER**

Soluble in water.

**12.5 RESULTS OF PBT- AND vPvB assessment**

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**12.6 OTHER ADVERSE EFFECTS**

Not known.

**SUMMARY**

Product is not classified as harmful to aquatic life. Fully soluble in water. May cause local effects due to low pH-value of the product. Do not discharge product into drains or watercourses. See Chemical Safety Assessment (KSU) for more data.

**SECTION 13. Disposal Consideration****13.1 DISPOSAL FROM EXCESS/UNUSED PRODUCT**

In accordance with directive 2000/532/EC unused product is not hazardous waste.

Suggestion of EWC-code:

**07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics**

07 06 99 – wastes not otherwise specified

**CONTAMINATED PACKAGE**

Should be recycled in accordance with local, state or national regulation. Contaminated packaging is not hazardous waste.

**SECTION 14. Transport Information**

Not classified as dangerous goods in accordance with ADR/RID/IMO/DGR.

**14.1 ENVIRONMENTAL RISKS**

Not known.

**14.2 SPECIAL SAFETY MEASURES**

Not known.

**14.3 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**

CLP (REGULATION (EC) No 1272/2008 and REGULATION 830/2015/EC, REACH Annex II)

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Chemical Safety Assessment (CSA) in Swedish is available for the product.

**SECTION 16. Other Information****FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTION 3**

H271 – May cause fire or explosion; strong oxidizer.

H302 – Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H332 – Harmful if inhaled.

H335 - May cause respiratory irritation.

(This information above is regarding the pure substance)

**LEGEND TO ABBREVIATIONS**

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**LITERATURE REFERENCES AND SOURCES FOR DATA**

Refer to chemical safety assessment (CSA) for sources.

**REVISION**

Version 1 (2020-10-23): Original document.

Version 2 (2020-11-04). Corrections and completion of information in section 4, 6, 7, 10, 11, 12, 13, 16.

This information is complementary. However, the user should independently decide whether the information is sufficient. Responsible for the product safety and facts is FrostPharma AB. Safety Data Sheet has been conducted with the participation of Amasis Konsult AB, Solna.

**OTHER INFORMATION**

Laboratory tests, on glass, have showed that the 99% of the product is still present on the surface in up to 2 hours after application, supporting long term effect against virus and bacteria.

Approximately 33% of the hydrogen peroxide applied is still present on inert surfaces such as glass in up to 24 hours after application. Virusafe has passed EN-14476.

**INSTRUCTIONS FOR USE**

Can be used on most surfaces that can withstand water and acid. Do not use on water and oxidation sensitive surfaces such as marble, zinc, copper and brass. Always test Virusafe on one smaller surface area to ensure that the surface does not react negative. May have bleaching effect on some materials. Harmless for skin. Any white spots and stinging sensation on skin is harmless and transient. Avoid at hypersensitivity to hydrogen peroxide.