

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

“FUNGI PRO”

Version No. 3.0

Print date: 4/10/2025

1. IDENTIFICATION OF SUBSTANCE/MIX AND ENTREPRENEURSHIP/COMPANY

- 1.1. Product identifier:** Product “Fungi PRO”
UFI: 2NC6-G06H-D008-EM0K
- 1.2. Identified usage purpose of substance or mixture, and non-recommended usage:** Fungus, algae, and mold cleaning agent with a bleaching effect. Intended for use on masonry, building walls, foundations, paving surfaces, and other construction material surfaces. Suitable for treatment of polymer materials, stone, concrete, and asbestos-cement structures.
Use according to the company’s developed instructions
- 1.3. Information of safety data sheet provider**
- 1.3.1. Manufacturer/importer: Ltd Vincents Polyline
- 1.1.1. Company registry number: 40003358071
- 1.3.2. Full address: 29 Cīruļu Street, Kalngale,
Carnikavas parish, Adazu county, LV-2163, Latvia
- Phone: +371-67903272
- E-mail: polyline@polyline.vincents.lv
- 1.4. Emergency phone numbers:** Ambulance: 113
State Fire and Rescue Service: 112
Toxicology and sepsis clinics Poisoning and Drug Information Centre: +371-67042473 (works 24 hours a day)

2. HAZARD IDENTIFICATION

2.1. Classification of substance or mixture

According to (EC) Regulation
No 1272/2008:

Skin Corr. 1B; H314
Met. Corr. 1; H290
Aquatic Acute 1; H400
Eye Dam. 1; H318
STOT SE 3; H335

2.2. Label element

GHS pictograms:



Signal word:

Bīstami

Hazard statement:

H290 – May be corrosive to metals
H314 – Causes severe skin burns and eye damage

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H335 – May cause respiratory irritation
H400 – Very toxic to aquatic life
EUH031 – Contact with acids liberates toxic gas
EUH206 – “Warning! Do not use together with other products.
May release dangerous gases (chlorine).”

Precautionary statement:

Prevention

P101 – If medical advice is needed, have product container or label at hand

P102 – Keep out of reach of children

Prevention:

P260 – Do not breathe gas/mist/vapours/spray

P273 – Avoid release to the environment

P280 – Wear protective gloves/protective eye/face protection

Response:

P303+P361+P353 – IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower

P305+PP351+P338 – 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 or doctor/physician

Storage:

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed

2.3. Other hazards:

Toxic and irritating gases may be released in case of fire.

Active substance:

Sodium hypochlorite: < 9%

The product does not contain PBT or vPvB substances.

Endocrine-disrupting properties: None known.

3. COMPOSITION/COMPONENT PART INFORMATION

3.2. Mixtures

Chemical characteristics:

Mixture

Hazardous components of the mixture:

Chemical name	CAS No. / EC No. / REACH Registration No.	Classification (REGULATION (EC) No. 1272/2008)	Concentration, %
Sodium hypochlorite, 10% active chlorine solution	7681-52-9/ 231-668-3/	 Met. Corr. 1; H290 Skin Corr.1B, H314	50 - 55

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		Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic chronic 1; H410 EUH031	
Sodium hydroxide NaOH	1310-73-2/ 215-185-5/	 Skin Corr. 1A; H314 Met. Corr. 1; H290	1 – 1,5

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:	Move to fresh air. If breathing is weak, administer oxygen. Seek medical attention
Skin contact:	Immediately wash with soap and plenty of water, removing all contaminated clothing and footwear
Eye contact:	Immediately rinse eyes with plenty of water for 5 minutes, including under the eyelids. Seek medical attention if necessary
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Drink 1 or 2 glasses of water. Immediately transport the affected person to the hospital

4.2. The most important symptoms and effects – acute and delayed\

Symptoms:	Causes skin and eye burns. If swallowed, may cause severe burns to the mouth and throat, with risk of esophageal and gastric perforation. Symptoms: pain, unconsciousness. Ingestion may cause upper respiratory tract irritation and gastrointestinal disturbances. Ingestion can lead to mucous membrane irritation
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4.3. Indication of needed immediate medical attention and special treatment

Treatment:	Treat symptomatically
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5. FIRE-FIGHTING MEASURES

5.1. Fire-fighting equipment

Suitable extinguishing media: Powder fire extinguishers, foam, carbon dioxide, water spray. Do not use a direct water jet. Water spray can be used to cool heated containers

5.2. Special hazards arising from the substance or mixture

Special hazards during fire: In case of fire or heating, irritating and toxic gases may be released

5.3. Suggestions to fire-fighters

Special protective equipment: For firefighter safety, wear a self-contained breathing apparatus (SCBA) with a full face mask and independent air supply

Additional information: When extinguishing a fire, use full personal protective equipment

6. IN CASE OF ACCIDENTAL SPILLAGE

6.1. Personal precautions, protective equipment and procedures in emergency situations: Wear appropriate personal protective equipment as outlined in section 8. Ensure proper ventilation

For people that haven't received training in emergency situations: Do not take any actions without any appropriate training that may cause any personal injury

Emergency aid personnel: Wear protective equipment. Ensure sufficient ventilation

6.2. Environmental safety measures: Prevent product spillage in sewage, water systems or soil, and in case of water system contamination reach out to the relevant authorities

6.3. Methods for containment and cleaning up: Collect the mixture with absorbent material (sand, earth, absorbent) and hand it over for waste disposal. Rinse the contaminated area with plenty of water

6.4. Reference to other sections: Personal protection in section 8. Elimination of substance or packaging in section 13

7. USE AND STORAGE

7.1. Precautions for safe handling: Information for personnel about hygiene measures of personal protection in section 8

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Advice for safe handling:	Ensure adequate air exchange and/or exhaust in the work area. Avoid contact with skin, eyes, and clothing
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Recommendations for fire and explosion protection measures:	Do not eat, drink, or smoke while handling the substance. Corrosive to metal, skin, and fabrics. Do not mix with acids
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7.2. Safe environment for storage, as well as incompatible type:	Store tightly closed in a dry, cool, and well-ventilated place. Keep at temperatures between -10 and +20 °C. Protect from direct sunlight. Do not store together with food or animal feed
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7.3. Specifically intended use for:	Not applicable
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8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters:	Contains substances with occupational exposure limit values: Sodium hydroxide OEL – 2 mg/m ³ (15 min); Chlorine: OEL – 1.5 mg/m ³ (15 min)
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Applied occupational exposure limit values:	For the mixture (aqueous solution of substances) there is no determination
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8.2. Exposure control

Appropriate technical control:	Ensure good ventilation and use appropriate personal protective equipment. See also Section 7
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Personal protection equipment

Breathing protection:	Use only with suitable ventilation/personal protective equipment. In case of inadequate ventilation, wear respiratory protection. Respirator with B2-P3 filter
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Skin protection:

Arm protection:

Protective gloves compliant with EN 374. Rubber or plastic gloves: butyl rubber, neoprene, nitrile rubber, natural rubber. Please follow the supplier's instructions regarding permeability and breakage time. Also, consider the specific local conditions where the product is used, such as the risk of cuts, abrasions, and contact time

Body protection:

Work protective clothing and protective footwear

Acu/sejas aizsardzība:

Tightly fitting protective goggles with side shields; face shield – according to NIOSH (US) or EN 374 standards

Hygiene measures:

Follow good industrial hygiene and safety practices. Wash hands before breaks and after the workday

Environmental risk assessment:

Do not spill product in groundwater or surface waters. Check sections 6. and 12

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9. PHYSICAL AND CHEMICAL CHARACTERISTICS

9.1. Information of basic physical and chemical characteristics

Appearance:	
State:	Liquid
Color:	Light yellow
Odor:	Specific
Odor threshold:	No information available
pH:	12,5 – 13
Melting/freezing point:	Not applicable
Range of boiling point and boiling temperature:	Not determined
Flash temperature:	Decomposes when heated
Evaporation rate:	Not determined
Flammability (other substances, gases)	Not classified
Highest/lowest flammability and explosion point:	Not determined
Vapor pressure:	Not determined
Vapor density:	Not specified
Density:	~ 1,2 kg/m ³ (20 °C)
Solubility:	Completely soluble in water
Partition coefficient (n-octanol/water):	N.a.
Self-ignition temperature:	Does not burn
Degradation temperature:	Decomposes when heated
Viscosity:	1 mPa·s
Explosive hazard:	Not dangerous

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Oxidation characteristics:	N.a.
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9.2. Cita informācija

Maximum explosion upper pressure:	Not applicable
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Minimum ignition energy:	Not applicable
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10. STABILITY AND REACTIVITY

10.1. Reactivity	Upon contact with acids, toxic gases are released. Corrosive to metals
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10.2. Chemical stability	Stable under recommended storage conditions. The product decomposes slowly, forming salts and oxygen
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10.3. Possibility of dangerous reaction:	Upon contact with acids, toxic gases are released. Corrosive to metals. Chlorine may form if mixed with acidic solutions. Heating may release dangerous gases (chlorine)
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10.4. Circumstances, which should be avoided:	Exposure to light. Avoid temperatures above 20 °C. To maintain the product's quality, do not store it in heat or direct sunlight
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10.5. Incompatible material:	Impurities, flammable materials – risk of strong reactions. Acids, acid salts. Chlorine may form if mixed with acidic solutions. Metals. Materials that are corrosive to metals
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10.6. Dangerous products of degradation:	Chlorine, oxygen
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11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes defined in Regulation (EC) No. 1272/2008:

Acute toxicity:
Orally:

Sodium hypochlorite : CAS Nr. 7681-52-9

LD₅₀(rat) = 8200 mg kg⁻¹

LD₅₀(mouse) = 5800 mg kg⁻¹

Sodium hydroxide: CAS Nr. 1310-73-2

LD₅₀/oral/rat= 140 -340 mg kg⁻¹

Dermally:

Sodium hypochlorite: CAS Nr. 7681-52-9

LD₅₀(rabbit) ≥ 10000 mg kg⁻¹

Sodium hydroxide: CAS Nr. 1310-73-2

LD₅₀(rabbit) = 1350 mg kg⁻¹

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Corrosive/Irritant to skin:	Causes burns. Causes severe skin and mucous membrane irritation. Causes skin burns
Causes eye damage/irritation:	The mixture causes severe eye irritation
Respiratory or skin sensitization:	Not sensitizing
Stem cell mutation:	Not mutagenic
Carcinogenicity:	Not carcinogenic
Toxic impact on specific organ, single exposure:	If swallowed, causes severe burns of the mouth and throat, as well as risks of esophagus and stomach perforation. Ingestion causes upper respiratory tract irritation and gastrointestinal disturbances. Ingestion may cause mucous membrane irritation
Toxic impact on specific organ, repeated exposure:	No available data
Risk of inhalation:	Not determined
11.2. Information on other hazards	The mixture does not contain PBT and vPvB substances. Endocrine disrupting properties: Not known

12. ENVIRONMENTAL INFORMATION

12.1. Toxicity

Toxicity of water environment:	Sodium hypochlorite: Rainbow trout (<i>Oncorhynchus mykiss</i>) LC ₅₀ (48 h) = 0,07 mg L ⁻¹ Fathead minnow (<i>Pimephales promelas</i>) LC ₅₀ (96 h) = 0,22 – 5,9 mg L ⁻¹ <i>Oncorhynchus gorbuscha</i> LC ₅₀ (96 h) = 0,023 – 0,052 mg L ⁻¹ <i>Oncorhynchus kisutch</i> LC ₅₀ (96 h) = 0,025 – 0,038 mg L ⁻¹ <i>Lepomis macrochirus</i> LC ₅₀ (96 h) = 0,3 – 5,3 mg L ⁻¹ Fish toxicity: 0,01 – 0,1 mg L ⁻¹ Daphnia LC ₅₀ (96 h) = 2,1 mg L ⁻¹ Daphnia EC ₅₀ (48 h) = 0,2 – 2,6 mg L ⁻¹ Daphnia LC ₅₀ (48 h) = 0,05 – 0,07 mg L ⁻¹ Invertebrates EC ₅₀ (48 h) = 0,01 – 0,1 mg L ⁻¹ Algae toxicity: <i>Phaeodactylum tricornutum</i> EC ₅₀ (24 h) = 0,6 mg L ⁻¹ <i>Chlorella sp</i> EC ₅₀ (20 h) = 0,6 mg L ⁻¹ Sodium hydroxide: Rainbow trout LC ₅₀ (96 h) = 45,4 mg L ⁻¹ <i>Gambusia affinis</i> LC ₅₀ (96 h) = 125 mg L ⁻¹ Common carp (<i>Cyprinus carpio</i>) LC ₁₀₀ (24 h) = 180 mg L ⁻¹
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Goldfish (*Carassius aratus*) $LC_{50}(24\text{ h}) = 160\text{ mg L}^{-1}$
Roach (*Leuciscus idus*) $LC_{50}(24\text{ h}) = 157 - 189\text{ mg L}^{-1}$
Daphnia $LC_{50}(48\text{ h}) = 30 - 100\text{ mg L}^{-1}$

12.2. Sustainability and degradation

Biodegradability:

Biodegradation: The methods for determining biodegradation are not applicable to inorganic substances

12.3. Potential bioaccumulation

Not bioaccumulative

12.4. Mobility in soil:

Distribution between environmental sectors:

Vapor pressure: 20 hPa (20°C). Water solubility: Completely soluble

12.5. PBT and vPvB expertise results

Assessment:

This mixture is not considered persistent, bioaccumulative, and toxic (PBT)
This mixture is not considered very persistent, very bioaccumulative (vPvB)

12.6. Endocrine-disrupting properties:

The mixture does not contain substances with endocrine-disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other negative effect and additional information

N.a.

13. CONSIDERATIONS REGARDING MANAGEMENT

13.1. Methods of processing considerations

Products:

Avoid spilling the mixture into the sewage system. Prevent or, wherever possible, reduce waste generation. Residues of the product may remain in empty containers or on the packaging liners. Dispose of this substance or product and packaging in a safe manner. Any leftover and unprocessed products should be handed over for disposal to accredited waste collection services. The disposal of this product must comply with environmental protection regulations, waste storage legislation, and local municipal regulations. Do not puncture the packaging

Packaging:

Handle as with unused products. Empty, uncontaminated containers or tanks can be reused. Packaging that cannot be cleaned, contaminated packaging, should be disposed of in the

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same way as the relevant substance. Completely emptied small packaging can be disposed of as household waste

14. TRANSPORT INFORMATION

- | | |
|---|--|
| 14.1. UN number: | 1791 |
| 14.2. UN shipping name: | Not classified |
| 14.3. Transport hazard class(-es): | 8 |
| 14.4. Packaging group: | II |
| 14.5. Environmental risks: | Environmentally hazardous |
| 14.6. Special precautions for users: | Not classified as hazardous in meaning |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: | Not applicable |
| 14.8. Other information: | |

15. LEGISLATION INFORMATION

- | | |
|---|--|
| 15.1. Safety, health and environmental regulations/legislation specific for substances or mixtures: | <p>The Safety Data Sheet has been prepared in accordance with Commission Regulation (EC) No. 830/2015. Labeling and classification have been developed in accordance with Regulation (EC) No. 1272/2008 of the European Parliament and of the Council (16 December 2008) on the classification, labeling, and packaging of substances and mixtures, as well as in accordance with Regulation (EC) No. 1907/2006 of the European Parliament and of the Council (REACH). Regulation (EU) No. 528/2012 of the European Parliament and of the Council (22 May 2012) concerning the making available on the market and use of biocidal products and the Cabinet of Ministers Regulations No. 628 of 27 August 2013 "Requirements for activities involving biocides."</p> <p>In Latvia, the management of hazardous waste is carried out in accordance with the Waste Management Law of 28.10.2010 and the amendments to the Waste Management Law of 16.12.2010, the Cabinet of Ministers Regulations No. 494 of 7 August 2018 "Procedure for the Record-keeping of Waste Transport", the Cabinet of Ministers Regulations No. 795 of 22 December 2015 "Procedure for the Record-keeping and Database of Chemical Substances and Mixtures", and Cabinet of Ministers Regulations No. 302 (19.04.2011) "Regulations</p> |
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on the Waste Classification and the Properties that Make Waste Hazardous”.

Transport information has been developed in accordance with the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), applicable from 01.01.2011, and in accordance with Annex 1 to Appendix B of the Convention concerning International Carriage by Rail (COTIF) (in force from 01.01.2011).

The information has been compiled taking into account the Cabinet of Ministers Regulations No. 325 of May 15, 2007, "Occupational safety requirements for contact with chemicals at workplaces," Regulation (EC) No. 2009/161, which establishes the third list of indicative occupational exposure limit values and amends Commission Directive 2000/39/EC, Council Directive 98/24/EC (April 7, 1998) "On the protection of workers' health and safety against risks related to the use of chemicals at work," Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, and Regulation (EC) No. 850/2004 "On persistent organic pollutants."

15.2. Evaluation of chemical safety:

The safety assessment has been conducted for individual components of the mixture. The safety assessment of the mixture was carried out based on the concentration of components in the final product (using the calculation method) and literature data

16. OTHER INFORMATION

16.1. Not otherwise specified substance hazards:

Warning phrase explanations (check sections 2. and 3.)

H290	Can be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
EUH031	Contact with acids releases toxic gases
EUH206	“Warning! Do not mix with other products. May release harmful gases (chlorine).”

Hazard class explanations (check sections 2. and 3.)

Skin Corr. 1A	Corrosive to skin, Category 1A
Skin Corr. 1B	Corrosive to skin, Category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, Category 1
STOT SE 3	Specific target organ toxicity – single exposure, Category 3
Met. Corr. 1	Substance mixture causing metal corrosion, Category 1
Eye Dam. 1	Serious eye damage, Category 1

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Acronyms: 67/548/EEC = Directive of Hazardous Substances. 1999/45/EC = Directive of Dangerous Preparations. EC Regulation No 1272/2008 = Regulation for substance and mixture classification, marking and packaging. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Goods Code. RID = agreement for carriage of dangerous goods by rail. ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road. TWA = time-weighted average. STEL = short-term exposure limit values.

AER – Exposure action rate, 8h; LC₅₀ – Median lethal concentration; LD₅₀ – Median lethal dose, EC₅₀ – Median effective concentration, vPvB – very persistent and very bioaccumulative; PBT – persistent, bioaccumulative and toxic.

The information provided in this safety data sheet represents all available information at the time of publication. The available information is brought only to ensure safety measures, product use, recycling, storage, transportation and utilization, it is not a quality guarantee or quality certificate for the previously mentioned product processes, as they are not under our supervision. Information reflects only the mentioned product, under no circumstances would it reflect the product when used with different material.