

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: 26.03.2024

MOSS CLEANER concentrate

Version 1.0

Print Date: 03.06.2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier:** "MOSS CLEANER concentrate"
UFI: F5S7-304S-P005-TPF9
- 1.2. Relevant identified uses and non-recommended uses of the substance or mixture:** Concentrate for the cleaning of mosses, algae, lichens from concrete, paving, granite and stone surfaces, all kinds of roofs, wooden facades and fences.
Use according to the instructions developed in the company.
- Type of product according to Regulation 528/2012:** 2 PT Disinfectants and algicides not intended for direct application to humans and animals.
- 1.3. Information about safety data sheets**
Supplier
- 1.3.1. Manufacturer: Vincents Polyline Ltd.
- 1.3.2. Company register number: 40003358071
- 1.3.3. Full address: 29 Cīruļu Street, Kalngale,
Carnikavas parish, Adazu county, LV-2163, Latvia
- Phone: +371-67903272
- Email: polyline@polyline.vincents.lv
- 1.4. Emergency phone number:** Ambulance: 113
State Fire and Rescue Service: 112
Toxicology and sepsis clinics Poisoning and Drug Information Centre, Hipokrata 2, Riga, Latvia, LV-1038; works 24 hours a day. Tel. no. +371 67042473

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

- Product definition: Mixture
- Classification according to Regulation 1272/2008/EC (CLP): Acute Tox. 4, H302
Skin Corr. 1B, H314
Eye Dam. 1, H318
Aquatic Acute 1, H400
Aquatic Chronic 3, H412

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2.2. Marking elements

Pursuant to Regulation 1272/2008/EC
(CLP)

Pictograms:



Signal word:

Dangerous!

Hazard statements:

H302 Harmful if ingested.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Hazardous ingredients:

Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides.

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Contact the POISON INFORMATION CENTRE/doctor immediately.
P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
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. Contact the POISON INFORMATION CENTRE/doctor immediately.
P361 Remove/Take off immediately all contaminated clothing
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of content/tank in accordance with local/regional/national/international regulations.

Additional marking:

Special requirements for retail packaging:

Not applicable.

Childproof packaging:

Applicable.

Tactile danger warning symbol (Δ):

Applicable.

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2.3. Other hazards:

The product does not meet the PBT and vPvB criteria according to Annex XIII to the REACH Regulation (Regulation (EC) No 1907/2006).

Toxicological/ecological information:

On the basis of the available data, the product does not contain ingredients for which in accordance with Article 57(f) of REACH or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) No 2018/605 are considered to have endocrine disrupting properties at a concentration of 0.1% or more.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2. Mixture

Name of the substance	Identifiers	Classification (REGULATION (EC) No 1272/2008)	Concentration, %
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	EC No: 270-331-5 CAS no: 68424-95-3 INDEX No: Not available REACH: 01-2120769330-57-XXXX	Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 M-factor: 10	12,0-12,5
Ethanol	EC No: 200-578-6 CAS no. 64-17-5 INDEX NO: 603-002-00-5 REACH: 01-2119457610-43-XXXX	Flam. Liq. 2, H225 Eye Irrit. 2, H319	1,0-1,5

The mixture shall not contain any constituents other than those mentioned above in this section which, according to the current knowledge of the supplier and the concentration of the substances, are likely to present a risk to health or the environment and it would therefore be necessary to indicate them in this section.

The abbreviations, as well as the explanations of the H-phrases, are given in section 16.

Occupational exposure limit values (if any) are given in Section 8.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:

Bring the victim to fresh air, provide peace and a comfortable position for breathing. If not breathing, if breathing is irregular or if breathing stops, artificial respiration or oxygen is provided by trained personnel. It can be dangerous for a person who provides assistance to carry out resuscitation from mouth to mouth. If negative health effects persist or if the negative health effects are severe, seek medical advice. If the victim is unconscious, put in a position on his side and immediately seek medical help.

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Skin contact: Rinse the stained skin immediately with plenty of water and soap. Take off your stained clothing and shoes. Before taking it off, wash contaminated clothing thoroughly with water or use gloves. Continue rinsing for at least 15 minutes. Wash clothes before reuse. Clean the shoes thoroughly before reuse.

Eye contact: Seek medical attention immediately. Rinse your eyes immediately with plenty of water lifting the upper and lower eyelids. Check if the contact lenses have been removed. Continue rinsing for at least 10 minutes. Chemical burns should be treated immediately by a doctor.

Ingestion: Seek medical help. Rinse your mouth with water. Remove dentures, if any. If the product has been swallowed, but the victim is conscious, give the victim to drink water in small quantities. Stop it if the victim feels unwell, as vomiting can be dangerous. DO NOT induce vomiting unless instructed by your doctor. If vomiting begins, tilt the victim's head down so that the vomited masses do not get into the respiratory tract. Do not give anything through the mouth to an unconscious patient. If the victim is unconscious, put it in a position on its side and immediately seek medical help.

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

Inhalation: May cause mild irritation of the nose, throat and respiratory tract when used by spraying.
Adverse symptoms may include the following: inflammation of the respiratory tract, cough, shortness of breath, fatigue, irritation, pain, unconsciousness.

After skin contact: Corrosive to the skin.
Adverse symptoms may include the following: Pain, swelling and redness of the skin, dermatitis, blistering, necrosis.

After getting into the eyes: May cause serious eye irritation.
Adverse symptoms may include the following: conjunctivitis, tearing, redness and swelling of the eyes, pain, blurred vision, blindness.

Swallowed: If ingested, it can be corrosive to the mouth, throat and gastrointestinal tract, and also harmful to health (mildly toxic). Adverse symptoms may include the following: nausea, vomiting, abdominal pain and diarrhea. Burns of the mouth and digestive tract (esophagus).

4.3. Indication of emergency care and special care required

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Instructions to the doctor:

Treat symptomatically. Immediately contact a toxicologist or a specialist of the Poisoning and Drug Information Center.

5. FIRE-FIGHTING MEASURES

5.1. Fire extinguishing agents

Suitable extinguishing media:

Use sprayed water or water mist, alcohol-resistant foam, or dry chemical mixture.

Unsuitable extinguishing media:

Do not use a jet of water of full capacity.

5.2. Special hazards arising from the substance or mixture

Special hazards during fire:

There is a risk of an explosion as a result of an increase in pressure if the product is heated in a limited volume. Combustion products may contain the following substances: hydrogen chloride gas, nitrogen oxides (NO_x), carbon oxides, as well as unidentified organic and inorganic compounds.

5.3. Recommendations for firefighters

Special protective equipment:

Fence off the scene and evacuate outsiders from the scene of the fire. Do not involve untrained or at-risk personnel in firefighting. Water contaminated with this material used to extinguish a fire must be fenced off and collected and prevented from entering water bodies, sewers or drains. Firefighters must wear appropriate protective equipment and autonomous breathing apparatus (SCBA) with a completely closed part of the face operating in the increased pressure mode. Clothing for firefighters (including helmets, protective footwear and gloves) must comply with European standard EN 469 "Protective clothing for firefighters. Performance requirements for protective clothing for firefighters" and at least a basic level of protection against chemical leaks must be provided.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal protective measures, protective equipment and emergency procedures:

For persons not trained for emergencies:

Do not involve untrained or at-risk personnel in the elimination of the leak. Evacuate the personnel of the adjacent territories. Do not allow access to untrained and vulnerable personnel. Do not touch or walk through a leaked product. Avoid inhalation of vapors and fog. Provide sufficient ventilation. If ventilation is not enough, wear an appropriate respirator. Put on suitable personal protective equipment.

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Emergency responders must:

If special protective equipment is required to collect the leakage, take into account the information on suitable and unsuitable materials specified in section 8. See also the information in Section 8 on hygiene requirements.

6.2. Environmental safety measures:

Do not allow the product to get on the soil, gutters, water bodies, gutters and sewers. If the product has caused environmental pollution (drains, water bodies, soil or air), report to the appropriate state authorities. Environmentally hazardous product - Toxic to aquatic organisms with long-term effects.

6.3. Localization (containment) and collection techniques and materials:

Small leaks:

Eliminate leakage if it is possible to do so without risk. Move packages away from the scene. Provide ventilation. Dilute with water and wipe if soluble in water. Place the spilled material in a designed, labeled waste container. Hand over for disposal to a licensed waste manager.

Large leaks:

Eliminate leakage if it is possible to do so without risk. Move packages away from the scene. Provide ventilation. Approach the scene from the wind-blowing side. Do not allow getting into drains, water bodies, cellars or adjacent areas. Inject the leaked product into water treatment plants or follow the instructions below. Collect the leaked product with a non-combustible, absorbent material such as sand, earth, vermiculite or diatomaceous earth and place it in a suitable waste container for disposal in accordance with local legislation. Hand over for disposal to a licensed waste manager.

6.4. Reference to other sections:

See section 1 for emergency contact details.
See section 8 for appropriate protective equipment.
See Section 13 on waste management information.

7. CIRCUMVENTION AND STORAGE

7.1. Safe handling and the precautions it requires:

Warnings for safe use:

Wear appropriate personal protective equipment (see section 8). Do not allow contact with eyes, skin and clothes. Avoid inhalation of fumes or fog. Beware of swallowing. Provide adequate ventilation when using the product. If ventilation is not enough, use an appropriate respirator. Store in the original package or in an approved other package made of compatible material. Keep tightly closed until use. In emptied packages, product residues may remain, which can be dangerous. Do not reuse the packaging.

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Occupational hygiene measures: Eating, drinking and smoking are not allowed in places of use, storage and production of the product. Workers should wash their hands and face before eating, drinking and smoking. Take off the stained clothing before entering the eating rooms. See section 8 on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities:

Storage: Store in accordance with local legislation. Store in a sealed and approved storage room. Keep the package tightly closed. Store in the original packaging, in a cool, well-ventilated place protected from direct sunlight. Do not store with incompatible substances (see Annex III, section 10), food and beverages. Keep the package tightly closed until use. Open packages must be properly closed and kept upright to prevent leakage. Do not store in unlabeled packaging. Use appropriate packaging to avoid environmental contamination.

7.3. Specific end use(s): See section 1.2.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters:

Occupational exposure limit values (OELs): Limit values are set across the EU, but each Member State sets its own OELs, which often go beyond those set by EU law (IOELV). The OEL is determined by the competent national authorities or other appropriate bodies.

EU: Indicative occupational exposure limit values (IOELV):

Name	AER mg/m ³ (8 h)	AER ppm (ml/m ³) (8 h)	AER mg/m ³ (15 min)	PPM AER (ml/m ³) (15 min)
There is no set for the product or its components.				

Latvia (RES, reg. 325/2011):

Name	AER mg/m ³ (8 h)	AER ppm (ml/m ³) (8 h)	AER mg/m ³ (15 min)	PPM AER (ml/m ³) (15 min)
Ethanol	1000	-	-	-

Predicted no-effect concentration (PNEC) according to Regulation (EC) No 1907/2006:

Name of the substance	Environmental sector	Value
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	Freshwater	1.4 µg/L
	Freshwater - irregular	0.66 µg/L
	Seawater	0,1 µg/L
	Wastewater treatment plant (STP)	500 µg/L
	Freshwater precipitate	No data
	Seawater deposits	No data
	Soil	No data

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8.2. Exposure control

Appropriate technical management: Use only with adequate ventilation. If the work results in dust, smoke, gas, vapours or haze, use process limitation, a draft cabinet or other devices to ensure air pollution below the standards recommended by workers or within the limits set by law. It is also necessary to use engineering equipment to ensure the concentration of gas, vapors or dust below the limits of explosiveness. Use explosion-proof ventilation equipment.

Personal protective equipment:



Hygiene measures:

After any contact with chemical products, wash hands, forearms and face thoroughly before eating, smoking and visiting the toilet, as well as after work.

Where clothing is suspected of being contaminated, appropriate techniques must be used to remove it. Wash stained clothing before reusing it. Ensure that eye rinsing devices and safety showers are located close to the working area.

Eye/face protection:

Safety glasses must conform to approved standards and be used if the risk assessment indicates their necessity in order to avoid liquid splashes, mists or dust. Safety glasses must conform to approved standards and be used if the risk assessment indicates their necessity in order to avoid liquid splashes, mists or dust. If contact with the substance is possible, the indicated protection should be used, unless the risk assessment indicates the need for a higher level of protection: protective glasses against splashes of chemical products and/or a face shield. If there is a risk of inhalation of the product, it is necessary to use a full face mask with an appropriate filter.

Skin protection:

Hand protection:

Chemically resistant, impermeable gloves complying with approved standards must be worn throughout the service life of the chemical product if the risk assessment indicates their necessity.

During use, check that the gloves still provide the level of protection specified by the manufacturer. It should be noted that the strength of gloves of the same material may vary from one manufacturer to another. If you work with mixtures containing various substances, it is impossible to calculate the level of strength of gloves with complete accuracy.

Penetration level 6, permeability level 3, according to EN 374, taking into account the concentration of chemicals specified in section 3.

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Body protection: Personal body protective equipment before using the product should be selected on the basis of work tasks and an assessment of the risk of the working environment carried out, approved by an appropriate specialist.

Other skin protection: Suitable protective footwear and any other protection of the skin before using the product should be selected on the basis of the work tasks and the risk assessment carried out, approved by the appropriate specialist.

Respiratory protection: Under normal conditions of use, there is no need for a personal respiratory protective device.
Use tight-fitting, air-purifying or air-feeding respirators according to the applicable standard if required by a risk assessment. The choice of respirator should be based on the known or expected level of occupational exposure, the risks of the product to the limitations of the safe operation of the respirator.

Environmental exposure control: Emissions from ventilation or treatment facilities must be controlled to ensure that they comply with environmental protection legislation. In some cases, it will be necessary to use emission collectors, filters or to carry out technical modifications of treatment equipment in order to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:
Physical state: Liquid
Color: No color

Smell: Weak

Melting point/freezing point: Not available

Boiling point or initial boiling point and boiling range: Not available

Flammability: Not available

Lower and upper explosion limits: Not available

Flash point: Not available

Auto-ignition temperature: The product is not self-igniting

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Decomposition temperature:	Not available
pH	6,6 – 6,9
Kinematic viscosity:	Not available
Solubility:	Soluble in water.
Partition coefficient (n-octanol-water) (log value):	Not available.
Vapour pressure:	Not available.
Density and/or relative density:	0,990 – 1,00 g/cm ³
Relative vapour density:	Not available.
Particle characteristics:	Not available.

9.2. Other information

Information on physical hazard classes:	Not applicable
Other safety characteristics:	Not applicable

10. STABILITY AND REACTIVITY

10.1. Reactivity	There are no known dangerous reactions when used as directed.
10.2. Chemical stability	The product is stable under the recommended storage conditions.
10.3. The likelihood of dangerous reactions:	Under normal conditions of storage and use, dangerous reactions will not occur.
10.4. Unacceptable circumstances:	Unknown.
10.5. Incompatible materials:	Strong oxidizing and reducing agents.
10.6. Dangerous decomposition products:	Under normal conditions of storage and use, hazardous degradation products should not form. But during prolonged heating, dangerous decomposition products can be released, for example, smoke, hydrogen chloride gas, nitrogen oxides (NO _x), carbon oxides.

11. TOXICOLOGICAL INFORMATION

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

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Acute toxicity:

Information about the product or its ingredients:

Name of product/substance	Result	Species	Gave	Exposure
MOSS CLEANER concentrate	ATE ORAL	-	1 983,3 mg/kg b.m.	-
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	LD50 Orally	Rat	238 mg/kg b.m.	-
	LD50 Dermal (dermal)	Rabbit	3 861 mg/kg b.m.	-
Ethanol	LD50 Orally	Rat	10 470 mg/kg b.m.	-
	LC50 inhalation	Rat	124.7 mg/L air	4 h
	LD50 Dermal (dermal)	Rabbit	17 100 mg/kg b.m.	-

Conclusion: According to the calculation classification method described in the CLP Regulation, this product has a ATE (oral) value of 1,983.3 mg/kg body weight – the product is classified as harmful if swallowed (Acute Tox. 4, H302).

Skin corrosion/skin irritation [skin corrosion/irritant to the skin]:

Information about the product or its ingredients:

Name of the mixture/ingredient	Effect
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	Result: Corrosive.

Conclusion: According to the calculation classification method described in the CLP Regulation, this product is classified as corrosive to the skin (Skin Corr. 1B, H314).

Serious eye damage/eye irritation:

Information about the product or its ingredients:

Name of the mixture/ingredient	Effect										
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	Result: Category 1 (irreversible effects on the eye) based on GHS criteria Species: Rabbit. Applied amount (volume): 0.1 ml. Duration of treatment/exposure: 1 second Observation period (in vivo): 1, 24, 48 and 72 hours. Guidelines: OECD Guidelines No. 405 (Acute eye irritation / Corrosiveness)										
	<table border="1"><thead><tr><th>Indicators of irritation</th><th>Time</th><th>Points</th><th>Mack. Points</th><th>Reversibility</th></tr></thead><tbody><tr><td>Maximum Average Total Points (MMTS)</td><td>1 h</td><td>94</td><td>94</td><td>Not reversible</td></tr></tbody></table>	Indicators of irritation	Time	Points	Mack. Points	Reversibility	Maximum Average Total Points (MMTS)	1 h	94	94	Not reversible
	Indicators of irritation	Time	Points	Mack. Points	Reversibility						
Maximum Average Total Points (MMTS)	1 h	94	94	Not reversible							
Ethanol	Result: category 2A (irritating to the eyes). Species: Rabbit.										

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	Applied amount (volume): 0.1 ml. Duration of treatment/exposure: Single exposure Observation period (in vivo): 21 days Guidelines: OECD Guidelines No. 405 (Acute eye irritation / Corrosiveness)				
	Indicators of irritation	Time	Points	Mack. Points	Reversibility
	Corneal clouding rate	24/48/72 h	0,17-1,67	4	Fully reversible: 4 days
	Iris pointer	24/48/72 h	0-1	2	Fully reversible: 3 days
	Conjunctival radiator	24/48/72 h	1,33-2,67	3	Fully reversible: 14 days
	Indicator of conjunctival edema (hemosis)	24/48/72 h	0,17-2	4	Fully reversible: 14 days

Conclusion: According to the calculation classification method described in the CLP Regulation, this product is classified as corrosive to the eye (Eye Dam. 1, H318).

Respiratory or skin sensitisation: No information on dangerous effects on humans or animals is available.

Stem cell mutation: No information on dangerous effects on humans or animals is available.

Carcinogenicity: No information on dangerous effects on humans or animals is available.

Reproductive toxicity: No information on dangerous effects on humans or animals is available.

Target organ toxicity, single exposure: No information on dangerous effects on humans or animals is available.

Target organ toxicity, repeated exposure: No information on dangerous effects on humans or animals is available.

Aspiration hazards: No information on dangerous effects on humans or animals is available.

Information on possible routes of exposure

Inhalation: May cause mild irritation of the nose, throat and respiratory tract.

After skin contact: Corrosive to the skin.

After getting into the eyes: May cause serious eye irritation.

Swallowed: If ingested, it can be corrosive to the mouth, throat and gastrointestinal tract, and also harmful to health (mildly toxic).

Symptoms related to physical, chemical and toxicological properties

Inhalation: Inflammation of the respiratory tract, cough, shortness of breath, fatigue, irritation.

After skin contact: Pain, swelling and redness of the skin, dermatitis, blistering, necrosis.

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After getting into the eyes: Conjunctivitis, tearing, redness and swelling of the eyes, pain or irritation, blurred vision.

Swallowed: Nausea, vomiting, abdominal pain and diarrhea may occur. Burns of the mouth and digestive tract (esophagus). Bleeding from the gastrointestinal tract.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

On the basis of the available data, the product does not contain ingredients for which in accordance with Article 57(f) of REACH or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) No 2018/605 are considered to have endocrine disrupting properties at a concentration of 0.1% or more.

11.2.2. Other information

Not available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Information about the product or its ingredients:

Name of the mixture/ingredient	Species	Water type	Exposure	Gave	Effect. Conc.
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	Crustaceans - Daphnia magna	Freshwater	48 h	EC50	0.066 mg/L
	Algae - Pseudokirchneriella subcapitata	Freshwater	72 h	EC50	27 mcg/L
Ethanol	Fish - Pimephales promelas	Freshwater	96 h	LC50	15,3 g/L
	Fish - Oryzias latipes	Freshwater	100 d.	NOEC	> 79 mg/L
	Crustaceans - Ceriodaphnia dubia	Freshwater	48 h	LC50	5012 mg/L
	Crustaceans - Ceriodaphnia dubia	Freshwater	10 d	NOEC	2 mg/L
	Algae - Chlorella vulgaris	Freshwater	3 d.	EC50	275 mg/L
Micro-organisms – Activated sludge	Freshwater	3 h	IC50	> 1 000 mg/L	

Conclusion:

According to the classification method and M factor(10) described in the CLP Regulation, the product is classified as: Aquatic Acute 1 - Short-term (acute) hazard to the aquatic environment, hazard category 1 (H400 Very toxic to aquatic organisms); Aquatic Chronic 3 - Long-term (chronic) hazard to the aquatic environment, hazard category 3 (H412 Harmful to aquatic life with long-term effects).

12.2. Persistence and degradability

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Information about the product or its ingredients:

Name of the mixture/ingredient	CAS no.	Degradation	Test method/ Guidelines
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3	Able to easily degrade. Degradation (CO ₂ release), 28 d.: 80.92%	EPA OTS 796.3100 (Aerobic biodegradability in the aquatic environment)
Ethanol	64-17-5	Able to easily degrade. Degradation (CO ₂ release), 28 d.: 97%	OECD Guidelines No. 301 B (Readily degradable: CO ₂ release test).

Conclusion: On the basis of the available data, the classification criteria are not fulfilled.

12.3. Bioaccumulation potential:

Name of the mixture/ingredient	Effect
Ethanol	BFC: 5 mg/L.

12.4. Mobility in the soil:

Distribution between environmental sectors: Not available.

12.5. Results of PBT and vPvB expert-examination

Assessment:

The substance does not meet the criteria for PBT and vPvB according to Annex XIII of the REACH Regulation (Regulation (EC) No 1907/2006).

12.6. Endocrine disrupting properties:

No data on adverse effects on animals or aquatic plants/animals are available.

Conclusion:

On the basis of the available data, the product does not contain ingredients for which in accordance with Article 57(f) of REACH or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) No 2018/605 are considered to have endocrine disrupting properties at a concentration of 0.1% or more.

12.7. Other adverse effects:

There are no reports of significant effects or critical hazards.

13. MANAGEMENT CONSIDERATIONS

13.1. Methods for processing considerations

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Product:

Methods of destruction: Waste must be disposed of in accordance with national, municipal and local environmental control regulations. Prevent the spread of leaked material and contact with soil, water bodies, drains and sewers.

Hazardous waste: According to the supplier's current knowledge, the product is considered hazardous waste in accordance with EC Directive 2008/98/EC and EU Regulation No. 1357/2014.

European waste catalogue (EWC): According to the European Waste Catalogue, Waste codes do not depend on the product, but depend on the way the product is used. Waste codes must be assigned to the user based on the way the product was used.
General waste code: 16: WASTE N.E.C. 16 03 05*: Organic waste containing hazardous substances.

Packaging:

Methods of destruction: Waste generation should be prevented or reduced as much as possible. Packaging to be disposed of shall be recyclable. May be added to the total waste after thorough cleaning of the packaging. Incineration or landfilling is permissible only if recycling is not available.
According to the supplier's current knowledge, packaging is not considered hazardous waste in accordance with EC Directive 2008/98/EC and EU Regulation No. 1357/2014.

14. TRANSPORT INFORMATION

	ADR	RID	IMDG	IATA
14.1. UN number:	-	-	-	-
14.2. UN shipping name:	-	-	-	-
14.3. Transport hazards Class(es):	-	-	-	-
14.4. Packing group:	-	-	-	-
14.5. Environmental hazards:	-	-	-	-
14.6. Special precautions User:	-	-	-	-

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14.7. Sea freight transport in bulk according to IMO instruments Not available

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific to substances and mixtures:

EPP Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

ERC Regulation (EU) No 528/2012 of 22 May 2012 concerning the making available on the market and use of biocidal products.

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road, concluded at Geneva on 30 September 1957, as amended.

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail, which is Annex C to the Convention concerning International Carriage by Rail (COTIF), concluded in Vilnius on 3 June 1999, as amended.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways, concluded at Geneva on 26 May 2000, as amended.

IMDG Code - International Maritime Dangerous Goods Code.

ICAO/IATA: IATA - International Air Transport Agreement.

ICAO - International Civil Aviation Organization.

International Convention for the Prevention of Pollution from Ships, 1973, as amended by the Protocol of 1978 relating thereto (MARPOL 73/78), as amended.

01.04.1998. Law "Law on Chemical Substances" .

Cabinet Regulation No. 15.05.2007. 325 "Labour Protection Requirements in Contact with Chemical Substances at Workplaces".

Cabinet Regulation No. 302 of 19.04.2011 "Regulations regarding waste classification and properties that make waste hazardous".

Cabinet Regulation No. 795 of 22.12.2015 "Procedures for Registration of Chemical Substances and Mixtures and Database".

Cabinet Regulation No. 113 of 18.02.2021 "Procedures for Accounting for Waste and Transportation Thereof".

Cabinet Regulation No. 628 of 27.08.2013 "Requirements for handling biocidal products"

EN469 – "Protective clothing for firefighters - Performance requirements for protective clothing for fire-fighting";

LVS EN ISO 374-1 – "Protective gloves against hazardous chemicals and micro-organisms";

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LVS EN 166:2002 – "Individual eye protection. Specifications";
LVS EN ISO 13688 – "Protective clothing - General requirements";
LVS EN ISO 20347:2012 – "Personal protective equipment - Work footwear".

15.2. Chemical safety assessment: Not applicable.

16. OTHER INFORMATION

16.1. Abbreviations and acronyms

REACH: Regulation 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

CLP: Classification, Labelling and Packaging Regulation (EC) No 1272/2008.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road, concluded at Geneva on 30 September 1957, as amended;

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail, which is an Annex to the Convention concerning International Carriage by Rail (COTIF), concluded in Vilnius on 3 June 1999, as amended.

IMDG: International Maritime Dangerous Goods Code

IATA: Agreement on International Carriage by Air

CAS: Chemical Abstracts Service

EINECS: European Inventory of Existing Commercial Chemical Substances

LC50: Mean lethal concentration

LD50: Median lethal dose

REACH: Registration, Evaluation and Authorisation of Chemicals

PBT: biologically accumulative and toxic .

vPvB: very persistent and biologically very accumulative.

c.m.: Body weight.

16.2. Abbreviations and acronyms

Acute Tox. 4, H302 – Calculation method

Skin Corr. 1B, H314 – Calculation method

Eye Dam. 1, H318 - Calculation method

Aquatic Acute 1, H400 – Calculation method

Aquatic Chronic 3, H412 – Calculation method

16.3. Full text of abbreviated H-phrases[CLP/GHS]

Flam. Liq. 2, Flammable liquids. hazard category 2;

H225 Flammable liquid and vapors.

Acute Tox. 3, Acute oral-mute toxicity, hazard category 3;

H301 Toxic if ingested.

Acute Tox. 4, Acute oral-toxic category, hazard category 4;

H302 Harmful if ingested.

Skin Corr. 1B, Skin corrosion/irritation, hazard category 1B;

H314 Causes severe skin burns and eye damage.

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Eye Dam. 1, Serious eye damage/eye irritation, hazard category 1.
H318 Causes serious eye damage.
Eye Irrit. 2, Serious eye damage/eye irritation, hazard category 2;
H319 Causes serious eye irritation.
Aquatic Acute 1, Short-term (acute) aquatic hazard, hazard category 1;
H400 Very toxic to aquatic organisms.
Aquatic Chronic 2, Long-term (chronic) aquatic hazard, hazard category 2;
H411 Toxic to aquatic life with long-term effects.
Aquatic Chronic 3, Long-term (chronic) aquatic hazard, hazard category 3;
H412 Harmful to aquatic life with long-term effects.

16.4. Sources of information

ECHA databases.

Safety data sheets will be developed by the raw material manufacturers.

16.5. Training recommendation

In addition to health, safety and environmental training programmes for employees, companies should ensure that employees become familiar with, understand and apply the requirements in Safety Data Sheets.

Instructions for the reader

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END OF SAFETY DATA SHEET