

SAFETY DATA SHEET

Complies with Regulation 1907/2006 of the European Parliament and of the Council (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Windshield fluid GOODYEAR SCREEN WASH -75C

Version: 01

Version: 13.06.2024

The date of the previous version: -

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

1.1. Product identifier

Trade name: **GOODYEAR SCREEN WASH -75C**
Winter windshield fluid concentrate

UFI: VE78-30TD-A00E-M9XQ

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

Relevant identified uses: Window cleaner for cars, for automotive and industrial use.
For consumer/professional use.

Uses advised against: Do not use for food.

1.3. Details of the supplier of the safety data sheet

Manufacturer in the EU (supplier of the safety data sheet): **CHEMISPEC Ltd.**
Legal address: Robezu 7, Ventspils, LV-3601, Latvia
Manufacturing address: Straumes 14, Tukums, LV-3104, Latvia.
Phone: +371 29473720
WEB page: <https://goodyearoilbaltics.com/>
E-mail of the competent person responsible for safety data sheets: nk@chemispec.com

1.4. Emergency telephone number

EU:112
Emergency telephone for other regions to be filled out by local business.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition: Mixture

Classification according to regulation (EC) No 1272/2008:

Flam. Liq. 2, Flammable liquids, Hazard Category 2.
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

2.2. Label elements

According to regulation (EC) No 1272/2008:

Pictograms:



Signal word:

Warning

Hazard statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Hazardous substances:

Not applicable.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233 Keep container tightly closed.

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| | |
|---|---|
| Supplemental label elements: | P280 Wear eye protection/face protection P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower] P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container to in accordance with local/national regulation. |
| Declaration of ingredients of detergents in accordance with Regulation (EC) No. 648/2004 (on detergents): | Not applicable. |
| | Contain: perfumes. |

Annex XVII – restrictions on production, placing on the market and use of certain hazardous substances, mixtures and products

None.

Specific requirements for retail packaging:

Child-resistant packaging: Not applicable.

Tactile hazard warning symbol (Δ) Not applicable.

Labeling exemptions for packaging <125 ml:

Not applicable.

2.3. Other hazards

2.3.1. Other hazards not related to classification

There are no such known.

2.3.2. Information on PBT and vPvB substances

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

2.3.3. Endocrine disrupting properties

Toxicological/ecological information: Based on the available data, the product does not contain ingredients that according to REACH Article 57(f) or Commission Delegated Regulation (EU) no. 2017/2100 or Commission Regulation (EU) no. 2018/605 are considered substances with endocrine disrupting properties, in a concentration of 0.1% or more.

Information on effects on health and possible symptoms is given in section 11.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

| Name of the substance | Identifier | Conc. (%) | Classification according to regulation 1272/2008/EC (CLP) | Type |
|-----------------------|-------------------------|-----------|---|------|
| Ethanol | CAS no.: 64-17-5 | 80-85 | Flam. Liq. 2, H225 | [2] |
| Ethyl alcohol | EC no.: 200-578-6 | | | [5] |
| | Index no.: 603-002-00-5 | | | |

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| | | | | |
|---|--|------|---|----------------|
| Butanone Ethyl methyl ketone | CAS no.: 78-93-3 EC no.: 201-159-0 Index no.: 606-002-00-3 | 0-≤1 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 | [1] [2] |
| Propan-2-ol Isopropyl alcohol Isopropanol | CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 | 0-≤1 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | [1] [2] [5] |

The mixture does not contain ingredients that, according to the supplier's current knowledge and concentration of substances, could pose a risk to health or the environment, and there are no PBT and vPvB substances or substances of similar concern, or substances with an occupational exposure limit value, and therefore should be listed in this section.

Abbreviations and explanations of H-phrases are given in section 16.

Occupational exposure limits (if established) are given in section 8.

Types:

- [1] substances hazardous to the environment or health;
- [2] substances with an occupational exposure limit value;
- [3] PBT-substances according to (EC) no. 1907/2006, for Annex XIII;
- [4] vPvB substances. according to (EC) no. 1907/2006, for Annex XIII.
- [5] The substance is included in the SEVESO Directive.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------|---|
| Inhalation: | Move the victim to fresh air, keep him calm and in a comfortable position for breathing, and contact a doctor. If smoke is suspected in the room, use an appropriate mask or self-contained breathing apparatus. If the victim's breathing stops or it is irregular, perform artificial respiration or administer oxygen. Only trained personnel may do this. Mouth-to-mouth breathing can be dangerous for the rescuer. If the victim is unconscious, place in the recovery position and seek medical help immediately. Maintain an open airway. |
| Skin contact: | Wash affected skin with plenty of soap and water. Remove soiled clothing and shoes. If symptoms occur, seek medical attention. |
| Eye contact: | Immediately flush eyes with plenty of water by lifting the upper and lower eyelids. Check that the contact lenses are removed. Continue rinsing for at least 15 minutes. Contact your doctor. |
| Ingestion: | Rinse mouth with water. Remove dentures, if any. If the product has been swallowed but the victim is conscious, give the victim small amounts of water to drink. Stop if the victim feels unwell, as vomiting can be dangerous. DO NOT INDUCE VOMITING unless directed by your doctor. If vomiting starts, tilt the victim's head downwards so that the vomited masses do not enter the respiratory tract. Never give anything by mouth to an unconscious individual. |

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

| | |
|---------------|--|
| Inhalation: | May cause irritation of the of the nasal cavity, throat and respiratory tract. Exposure to high concentrations: central nervous system depression. Respiratory tract irritation. Irritation of the nasal mucosa. Adverse symptoms may include the following: inflammation of the respiratory tract, cough, shortness of breath. |
| Skin contact: | Prolonged exposure may result in dry skin and temporary irritation. Adverse symptoms may include the following: irritation, redness, blisters may form. |
| Eye contact: | May be irritating to eyes. Adverse symptoms may include the following: irritation, tearing, redness. |
| Ingestion: | May cause central nervous system depression. Inhalation of vomit can cause lung damage. Adverse symptoms may include the following: abdominal pain, nausea, headache, dizziness and intoxication. |

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

Notes to physician Treat symptomatically.

Information on effects on health and possible symptoms is given in section 11.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, carbon dioxide (CO₂), or dry powder.

Unsuitable extinguishing media: Do not use a full power water jet.

5.2. Special hazards arising from the substance or mixture

Risk of explosion if sealed package is heated. In the event of a fire, if heated, pressure will increase and the package may explode. The product is flammable and when heated can release vapors that form an explosive mixture with air. Combustion products may contain the following substances: carbon dioxide, carbon monoxide and unidentified organic and inorganic compounds.

5.3. Advice for firefighters

Protective equipment for firefighters, Demarcate the area and evacuate bystanders from the fire zone. Do not involve untrained or personnel without protective equipment in firefighting. Fire-fighting water contaminated with this material must be contained and collected, and must be prevented from entering water bodies, sewers or drains.

Special firefighting procedures: Firefighters must wear appropriate protective equipment and full-face self-contained breathing apparatus (SCBA) operating under increased pressure. Clothing for firefighters (including helmets, safety shoes and gloves) must comply with the European standard EN 469 "Protective clothing for firefighters. Performance requirements for protective clothing for firefighters" and must provide at least a basic level of protection against chemical spills.

5.4. Additional information

Use a water jet to cool unopened containers and disperse vapors.
Do not allow water used for firefighting to enter drains and water bodies.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: Do not involve untrained or at-risk personnel in handling the spill. Evacuate personnel from surrounding areas. Do not allow access to area untrained or personnel without protective equipment. Do not touch or walk through spilled product. Avoid inhalation of vapors and mists. Eliminate all sources of ignition - No smoking. Ground all containers and equipment. Use explosion-proof equipment, electrical devices and ventilation system. Use only non-sparking tools. Avoid inhalation of vapors and mists. Ensure adequate ventilation. If ventilation is inadequate, wear an appropriate respirator. Put on suitable personal protective equipment.

6.1.2. For emergency responders: Ensure that untrained persons cannot access the dangerous area. If special protective equipment is required to collect spills, refer to Section 8 for suitable and unsuitable materials. Also review information for personnel not involved in emergency response.

6.2. Environmental precautions

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Do not allow product to enter drains. If the product has caused environmental pollution (sewers, water bodies, soil or air), report to the appropriate government authorities.

6.3. Methods and material for containment and cleaning up

In case of a large spill (e.g., in warehouses, etc.) - contain the spilled product with a non-flammable, absorbent material and place in a suitable waste container for disposal in accordance with local legislation. Take to a licensed waste management company for disposal. Flush the spill with water. Use non-sparking work tools.

6.4. Reference to other sections

See Section 1 for emergency contact information.
See section 8 for suitable protective equipment.
See section 13 for waste management information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|---|---|
| Protective measures: | Put on suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothes. Avoid inhalation of vapors or mist. Beware of swallowing. Avoid contact with acids, moisture and flammable materials. Ensure adequate ventilation when using the product. If ventilation is insufficient, use an appropriate respirator. Store in original packaging or approved alternative packaging made of compatible material. Keep tightly closed until use. Empty packages may contain product residues that can be dangerous. Do not reuse the packaging. |
| Protective measures against fire and explosion: | Take measures against the accumulation of static electricity - ground the equipment. Eliminate all possible sources of ignition (sparks and flames). Extinguish all open flames. Move away from the storage area all appliances that can cause sparks. Ensure adequate ventilation when using the product. Before starting work, make sure that the fire extinguishers are in working order. |
| Advice on general occupational hygiene: | Eating, drinking and smoking are not allowed in the areas of product use, storage and production. Employees must wash their hands and face before eating, drinking and smoking. Remove soiled clothing before entering dining areas. See section 8 for 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 section 10), food and beverage. Store away from heat and ignition sources. Keep the package tightly closed until use. Open packages must be tightly 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)

| | |
|------------------------------|---|
| Recommendations: | Window cleaner for cars, for automotive and industrial use. For consumer / professional use. |
| Solutions for manufacturers: | Information not available. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Occupational Exposure Limits (OEL): Limit values are set throughout the EU, but each Member State sets its own OELs, which often exceed those set by EU legislation (IOELVs). OELs are determined by national competent authorities or other appropriate institutions.

EU: Indicative occupational exposure limit values (IOELV):

| Name of the substance | Value 8 h exposure | | Value short term exposure | |
|-----------------------|-----------------------------|------------------------------------|--------------------------------|-----------------------------|
| | OEL mg/m ³ (8 h) | OEL ppm (ml/m ³) (8 h) | OEL mg/m ³ (15 min) | OEL mg/m ³ (8 h) |
| Butanone | 600 | 200 | 900 | 300 |

Latvia (AER, MK reg. Nr.325):

| Name of the substance | Value 8 h exposure | | Value short term exposure | |
|----------------------------------|-----------------------------|------------------------------------|--------------------------------|-----------------------------|
| | OEL mg/m ³ (8 h) | OEL ppm (ml/m ³) (8 h) | AER mg/m ³ (15 min) | OEL mg/m ³ (8 h) |
| Ethanol Eethyl alcohol | 1000 | - | - | - |
| Butanone | 200 | 67 | 900 | 300 |
| Propan-2-ol Isopropyl alcohol | 350 | - | 600 | - |
| Synthetic detergents | 5 | - | - | - |

Biological limit values: No limit values are specified for the components.

Recommended monitoring Procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy), as well as national guidance documents for methods for the determination of hazardous substances.

8.2. Exposure controls

Appropriate engineering controls: Use only with adequate ventilation. If dust, fumes, gas, vapors or haze are generated as a result of the work, use process containment, local exhausted ventilation or other devices to ensure air pollution below the recommended occupational exposure limits or stated occupational exposure limits. It is also necessary to use engineering equipment to ensure the concentration of gas, vapor or dust below the explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures, such as personal protective equipment:



Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety glasses must meet approved standards and must be used when a risk assessment indicates the necessity to wear them to avoid liquid splashes, mist or dust. If contact with the substance is possible, the specified protection must be worn, except if the risk assessment indicates the need for a higher level of protection: goggles or a face shield against splashes of chemical products. If there is a risk of inhaling the product, it is necessary to use a full face mask with an appropriate filter.

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Skin protection

| | |
|-----------------|--|
| Hand protection | Chemically resistant, impervious gloves of approved standards must be worn throughout handling of the product if a risk assessment indicates the need for them. During use, check that the gloves still provide the level of protection specified by the manufacturer. It should be noted that the durability of gloves of the same material may vary from manufacturer to manufacturer. If you work with mixtures containing different substances, it is impossible to calculate the level of glove resistance with absolute accuracy. Penetration level 6, permeation level 3, according to EN 374, taking into account the concentration of chemicals specified in section 3. |
| Body protection | Personal protective equipment must be selected based on the work tasks and the risk assessment of the working environment, approved by the appropriate specialist. |
| Other | Appropriate protective footwear and any other skin protection must be selected prior to product use based on work tasks and a risk assessment of the work environment, approved by an appropriate specialist. |

Respiratory protection

Personal respiratory protection is not required under normal conditions of use.
Use close-fitting, air-purifying or air-suppressing respirators in accordance with the applicable standard when a risk assessment dictates this. The choice of respirator should be based on the known or expected level of occupational exposure, product risks and limitations of the respirator's safe operation.

Environmental exposure controls

Emissions from ventilation or processing equipment must be controlled to ensure compliance with environmental protection legislation. In some cases, it will be necessary to use emission collectors, filters, or make technical modifications to treatment equipment to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | Liquid. |
| Colour | Blue. |
| Odour | Characteristic (Perfume composition). |
| Melting point/freezing point | < minus 51 °C. |
| Boiling point or initial boiling point and boiling range | Not available. |
| Flammability | The product contains flammable ingredients and the product itself is considered a flammable liquid. |
| Lower and upper explosion limit | Not available. |
| Flash point | ≥ 20 °C (Closed Cup). |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| pH | Not available. |
| Kinematic viscosity | Not available. |
| Solubility | The product is soluble in water. |
| Partition coefficient n-octanol/water (log value) | Not available. |
| Vapour pressure | Not available. |

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| | |
|---------------------------------|----------------|
| Density and/or relative density | Not available. |
| Relative vapour density | Not available. |
| Particle characteristics | Not available. |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

| | |
|-------------------|--|
| Flammable liquids | The products contain 80-85% ethanol, classified as a category 2 flammable liquid. There are no test data available for the product, but the information available in literature sources (e.g. https://www.engineeringtoolbox.com) shows that the flash point of the ethanol-water mixture, at an ethanol concentration of 80-85%, is 20-22 °C. The criteria set out in the CLP regulation state that for a mixture to be classified as a category 3 flammable liquid, it must have a flash point below 23 °C. It can therefore be concluded that this product should be classified as a flammable liquid (Flam. Liq. 2, H225). |
|-------------------|--|

9.2.2. Other safety characteristics

Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No known effect according to our database.

10.2. Chemical stability

The product is stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions of storage and use.
Vapors may form an explosive mixture with air.

10.4. Conditions to avoid

Heat, sparks, open flame, electric discharge.

10.5. Incompatible materials

No reactive or incompatible materials are known according to our database.

10.6. Hazardous decomposition products

Thermal decomposition or incomplete combustion may produce carbon monoxide, carbon dioxide and irritating fumes.

SECTION 11: Toxicological information

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

Acute toxicity:

Information about the product or its ingredients:

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| Product/substance name | Result | Species | Dose | Exposure |
|----------------------------------|------------------------|---------|----------------|----------|
| Ethanol Eethyl alcohol | LD50 Oral | rat | 10470 mg/kg bw | - |
| | LC50 Inhalation: vapor | rat | 116,9 mg/L air | 4 h |
| | LD50 Dermal | rabbit | 17100 mg/kg bw | - |
| Butanone | LD50 Oral | rat | 2 054 mg/kg | - |
| Propan-2-ol Isopropyl alcohol | LD50 Oral | rat | 5,84 g/kg bw | - |
| | LC50 Inhalation | rat | > 10000 ppm | 6 h |
| | LD50 Dermal | rabbit | 16,4 mL/kg bw | - |

Conclusion/Summary: Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Information about the product or its ingredients:

| Product/substance name | Effect |
|------------------------|---|
| Butanone | Repeated exposure may cause skin dryness or cracking. |

Conclusion/Summary: Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Information about the product or its ingredients:

| Product/substance name | Effect | | | | |
|----------------------------------|--|-------------|---------------|--------------------|--|
| Butanone | Interpretation of results: Category 2 (eye irritant) based on GHS criteria. Species: Rabbit Dose: 0.1 ml (100%) Duration of treatment/exposure: single exposure Observation time: 7 days. | | | | |
| | Irritation score | Time | Result | Max. result | Reversibility |
| | Overall Irritation Index | 24 h | 19,2 | 110 | Indications of positive irritation |
| | Overall Irritation Index | 72 h | 10,8 | 110 | Indications of positive irritation |
| | Overall Irritation Index | 7 d. | 0,8 | 110 | No indications of irritation were observed |
| Propan-2-ol Isopropyl alcohol | Interpretation of results: Category 2 (eye irritant) based on GHS criteria. Species: Rabbit Dose: 0.1 ml (100%) Duration of treatment/exposure: single exposure Observation time: 14 days. | | | | |
| | Irritation score | Time | Result | Total score | Reversibility |
| | Maximum Mean Total Score (MMTS) | 24 h | 8-25 | 110 | Not fully reversible within: 24 hours |
| | | 14 d. | 0-2 | 10 | Results varies from fully reversible to not fully reversible within: 14 days |
| | Corneal opacity score | 24/48/72 h | 3,67 | 4 | Fully reversible within: 7 days |
| | Iris score | 24/48/72 h | 1 | 2 | Fully reversible within: 4 days |
| | Conjunctivae score | 24/48/72 h | 3 | 3 | Not fully reversible within: 10 days |
| | Chemosis score | 24/48/72 h | 3 | 4 | Fully reversible within: 14 days |

Conclusion/Summary: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization:

Information about the product or its ingredients:

Information on dangerous effects on humans or animals is not available

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Conclusion/Summary: Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Information about the product or its ingredients:

Information on dangerous effects on humans or animals is not available

Conclusion/Summary: Based on available data, the classification criteria are not met.

Carcinogenicity:

Information about the product or its ingredients:

Information on dangerous effects on humans or animals is not available

Conclusion/Summary: Based on available data, the classification criteria are not met.

Reproductive toxicity:

Information about the product or its ingredients:

Information on dangerous effects on humans or animals is not available

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity – single exposure

Information about the product or its ingredients:

| Product/substance name | Effect |
|----------------------------------|---|
| Butanone | Hazard category: Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis. Hazard statement: May cause drowsiness or dizziness. Organs Affected: Central Nervous System. Mode of action: by inhalation. |
| Propan-2-ol Isopropyl alcohol | Hazard category: Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis. Hazard statement: May cause drowsiness or dizziness. Affected organs: central nervous system Route of exposure: inhalation |

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity – repeated exposure

Information about the product or its ingredients:

Conclusion/Summary: Based on available data, the classification criteria are not met.

Aspiration hazard.

Information about the product or its ingredients:

Information on dangerous effects on humans or animals is not available

Conclusion/Summary: Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Inhalation:

May cause irritation of the nasal cavity, throat and respiratory tract. Exposure to high concentrations: central nervous system depression. Respiratory tract irritation. Irritation of the nasal mucosa.

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Contact with the skin: Prolonged exposure may result in skin dryness and temporary irritation.
Contact with eyes: May be irritating to eyes.
Ingestion: May cause central nervous system depression. Inhalation of vomit can cause lung damage.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Inflammation of the respiratory tract, cough, shortness of breath.
Contact with the skin: Irritation, redness, blisters may form.
Contact with eyes: Irritation, lacrimation, redness.
Ingestion: Abdominal pain, nausea, headache, dizziness and intoxication.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short-term exposure

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Long-term exposure

Potential immediate effects: Not available.

Potential delayed effects: Not available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Based on the available data, the product does not contain ingredients that, according to REACH Article 57(f) or Commission Delegated Regulation (EU) no. 2017/2100 or Commission Regulation (EU) no. 2018/605 are considered substances with endocrine disrupting properties, in a concentration of 0.1% or more.

11.2.2. Other information

Not available.

SECTION 12: Ecological information

12.1. Toxicity

Information about the product or its ingredients:

| Product/Substance name | Species | Effect | Exposure | Dose |
|---------------------------|------------------------------------|------------------|----------|-----------------|
| Ethanol Eethyl alcohol | Fish - Oncorhynchus mykiss | LC ₅₀ | 24 h | 11200 mg/L |
| | Fish - Leucistus idus melanotus | LC ₅₀ | 48 h | 8140 mg/L |
| | Fish - Pimephales promelas | LC ₅₀ | 96 h | 14,2 g/L |
| | Crustacea - Daphnia magna | EC ₅₀ | 24 h | 10800 mg/L |
| | Crustacea - Daphnia magna | EC ₅₀ | 48 h | 9268-14221 mg/L |
| | Algae - Raphidocelis subcapitata | EC ₅₀ | 7 d. | 5000 mg/L |
| | Microorganisms— Pseudomonas putida | IC ₅₀ | 16 h | 6500 mg/L |

Conclusion/Summary: Based on available data, the classification criteria are not met.

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12.2. Persistence and degradability

Information about the product or its ingredients:

| Product/Substance name | CAS no. | Degradation | Guideline/ Test method |
|------------------------|---------|-------------------|------------------------|
| Ethanol | 64-17-5 | Easily degradable | - |

Conclusion/Summary: Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Information about the product or its ingredients:

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

12.4. Mobility in soil

Information about the product or its ingredients:

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

12.5. Results of PBT and vPvB assessment

The product does not meet the PBT and vPvB criteria 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/Summary: Based on the available data, the product does not contain ingredients that, according to REACH Article 57(f) or Commission Delegated Regulation (EU) no. 2017/2100 or Commission Regulation (EU) no. 2018/605 are considered substances with endocrine disrupting properties, in a concentration of 0.1% or more.

12.7. Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Methods of disposal: Waste must be disposed of in accordance with the requirements of national, municipal and local regulatory acts in the field of environmental protection. Do not allow spilled material to spread and enter soil, water bodies, drains and sewers.

Hazardous waste: According to our current knowledge, the product is considered hazardous waste according to EC directive no. 2008/98/EC and EU regulation no. 1357/2014.

European waste catalogue (EWC): 20 01 29*: detergents containing hazardous substances

Packaging:

Methods of disposal: The generation of waste should be prevented or minimized as much as possible. The packaging to be disposed of is recyclable. May be added to general waste, after thorough cleaning of the packaging. Incineration or disposal in landfills is permitted only if replanting is not available. According to the supplier's current knowledge, the packaging is not considered hazardous waste according to EC directive 91/689/EEC.

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European waste catalogue Emptied package:
EWC code:
Bottle: 20 01 39 Plastics.

SECTION 14: Transport information

The product is not classified as dangerous for transport according to transport regulations (ADR/RID, IMDG or ICAO/IATA).

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|---|--|---|--|
| 14.1. UN number or ID number | 1993 | 1993 | 1993 | 1993 |
| 14.2. UN proper shipping name | FLAMMABLE LIQUID, N.O.S. (Ethanol) | | | |
| 14.3. Transport hazard class(es) |  3 |  3 |  3 |  3 |
| 14.4. Packing group | III | III | III | III |
| 14.5. Environmental hazards | No | No | No | No |
| 14.6. Special precautions for user | <u>Classification code:</u> F1 <u>Special provisions:</u> 274; 601 <u>Limited quantity:</u> 5 L <u>Excepted quantity:</u> E1 <u>Packaging:</u> Packaging instructions: P001, IBC03, LP01, R001 Mixed packaging provisions: MP19 <u>Portable tanks and bulk containers:</u> Instructions: T4 <u>Special provisions:</u> TP1; TP29 <u>ADR tank:</u> Tank code: LGBV <u>Transport category:</u> 3 <u>Tunnel restriction code:</u> (D/E) <u>Vehicle for tank carriage:</u> FL <u>Special provisions for carriage:</u> Packages: V12 Operation: S2 <u>Hazard identification:</u> 30 | <u>Classification code:</u> F1 <u>Special provisions:</u> 274; 601 <u>Limited quantity:</u> 5 L <u>Excepted quantity:</u> E1 <u>Packaging:</u> Packaging instructions: P001, IBC03, LP01, R001 Mixed packaging provisions: MP19 <u>Portable tanks and bulk containers:</u> Instructions: T4 <u>Special provisions:</u> TP1; TP29 <u>RID tank:</u> Tank code: LGBV <u>Transport category:</u> 3 <u>Special provisions for carriage:</u> Packages: W12 <u>Colis express (express parcels):</u> CE4 <u>Hazard identification:</u> 30 | <u>Special provisions:</u> 223; 274; 330; 944; 955 <u>Limited quantity:</u> 5 L <u>Packaging:</u> Packaging instructions: P001, LP01 <u>IBC:</u> Instructions: IBC03 <u>Portable tanks and bulk containers:</u> IMO tanks Instructions: T1 UN tanks Instructions: T4 <u>Special provisions:</u> TP1; TP29 <u>EmS code:</u> F-E, S-E <u>Stowage and segregation:</u> Category A. <u>Properties and observations:</u> = | <u>Passenger Aircraft (PAX):</u> IATA Limited quantities packaging instructions: Y344 IATA Max Limited Quantities per package: 10 L IATA Packaging instructions: 355 <u>Cargo Aircraft (CAO):</u> Packaging instructions: 366 Max Limited Quantities per package: 30 L <u>IATA Special provisions:</u> A3 |

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| | |
|--|--|
| 14.7. Maritime transport in bulk according to IMO instruments | IBC packing instructions: IBC03 Instructions for transport tanks and bulk containers: T1/T4 |
|--|--|

SECTION 15: Regulatory information

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

15.1.1. EU regulations

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

COMMISSION REGULATION (EU) No 1357/2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

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

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

ADN - the 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.

IATA/ICAO: ICAO - International Civil Aviation Organization. IATA - International Air Transport Association.

MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

Annex XIV - List of substances subject to authorization: Not applicable.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

15.1.2. National legislation

to be filled out by local business

EN469 – "Protective clothing for firefighters - Performance requirements for protective clothing for firefighting activities";

EN ISO 374-1 – " Protective gloves against dangerous chemicals and micro-organisms

Part 1: Terminology and performance requirements for chemical risks";

EN 166:2002 - "Personal Eye Protection Standard";

EN ISO 13688 – " Protective clothing — General requirements";

EN ISO 20347:2021 "Personal protective equipment — Occupational footwear".

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

16.1. Abbreviations and acronyms

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

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

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ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: International Rule for Transport of Dangerous Substances by Railway

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

CAS: Chemical Abstracts Service

EINECS: European Inventory of Existing Commercial chemical Substances

LC50: Median lethal concentration

LD50: Median lethal dose

REACH: Registration, Evaluation and Authorisation of Chemicals

PBT: Persistent, bio-accumulative and toxic

vPvB: Very persistent, very bio-accumulative

bw: Body weight.

16.2. Classification method

Flam. Liq. 2, H225 -> Expert assessment based on literature data on the ignition temperatures of ethanol-water mixtures (Bridging principle - Interpolation in the same hazard category).

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

Flam. Liq. 2: Flammable liquids, Hazard Category 2.

H225 Highly flammable liquid and vapour.

Eye Irrit. 2, Serious eye damage/eye irritation, Hazard Category 2;

H319 Causes serious eye irritation.

STOT SE 3, Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis;

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

16.4. Information sources

ECHA databases.

Safety data sheets compiled by raw material manufacturers.

16.5. Recommendations for training

In addition to health, safety and environmental training programs for employees, companies should ensure that employees read, understand and apply the information and recommendations in the Safety Data Sheets.

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END OF THE SAFETY DATA SHEET