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| In compliance with the requirements of Appendix II of the Regulation (EC) No. 1907/2006 (REACH) and the Regulation (EU) 2015/830 | Filling date: 2020-03-17 Date of last update: 2020-03-25 Version: 1 |
| Mixture: Hand sanitizer | Page 1 of 17 |

Section 1. SUBSTANCE/MIXTURE AND COMPANY IDENTIFICATION

1.1. Product identification

Product name: Liquid hand sanitizer

Product class: Sanitizer produced based on the 1st WHO (World Health Organization) formula.

1.2. Established types of use of the substance or mixture and non-recommended types of use

Established types of use: Sanitizer produced based on the 1st WHO formula from the denatured ethyl alcohol. This agent is designed for the disinfection of hands.

Non-recommended types of use: do not use in accordance with other types of use than specified or for a different purpose.

1.3. Detailed information on the provider of the Safety Data Sheet

Manufacturer:

UAB "Agroorganika"

Savanorių pr. 192-404, LT-44151

Tel. +37060685293

E-mail: Agroorganic88@gmail.com

The e-mail of the person in charge of the safety data sheet: Dariuslizevicius@gmail.com

1.4. Helpline number:

The Lithuania Poisons Control and Information Bureau, Šiltnamių g. 29, LT-2043, Vilnius, tel. (8~5) 236 2052 or +370 687 53378. The website is at <http://www.apsinuodijau.lt>

Emergency number 112

Section 2. POTENTIAL HAZARDS

2.1. Substance or mixture classification (in accordance with the Regulation (EC) 1272/2008)

| | |
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| <i>In accordance with the Regulation 1272/2008/EC.</i> | Flammable liquids, Cat. 2, H225 |
| | Serious eye irritation, Cat. 2, H319 |

2.2. Marking elements (in accordance with the Regulation (EC) 1272/2008)

Hazard Pictogram(s):



GHS02

GHS07

Signal Word:

Danger

Hazard statement(s):

H225 Highly flammable liquid and vapours
H319 Causes serious eye irritation

Precautionary phrases:

| | |
|------------|---|
| Prevention | P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| | P233 Keep container tightly closed. |
| | P264 Wash hands thoroughly after handling. |
| | P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P337 + P313 If eye irritation persists: Get medical advice/attention. |

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| Storage | P403 + P235 Store in a well-ventilated place. Keep cool. |
| Disposal | P501 Dispose of contents/container in accordance with the requirements established by the law. |

Hazardous components which must be listed on the label: not applicable

Additional marking information:

EUH phrase(s): not applicable

Tactile warning devices (TWD) – applicable. The packaging of any volume supplied to the general public must be marked by a tactile warning device.

Child-resistant closing devices (CFR) – not applicable

2.3. Other hazards: unknown

PBT and vPvB: Not applicable. Neither the mixture nor the components of the mixture meet the PBT and/or vPvB criteria in accordance with Appendix XIII of the REACH Regulation.

Section 3. COMPOSITION AND INFORMATION ON COMPONENTS

3.1. Substances. Not applicable.

3.2. Mixtures. The product is a chemical mixture. The basis of the product is the mixture of a denatured ethyl alcohol (produces in accordance with the WHO 5th formula).

Components that must be indicated:

| Substance name / REACH registration No. | CAS / EC (Index) No. | Classification in accordance with the Regulation (EC) 1272/2008 | m. d. % |
|--|--------------------------------------|---|---------------|
| * Ethanol / 01-2119457610-43-xxxx | 64-17-5 / 200-578-6 (603-002-00-5) | Flam. liquids 2, H225 Causes serious eye irritation 2, H319 | 66.62 – 83.28 |
| * Glycerol (99%) / 01-2119471987-18-xxxx | 56-81-5 / 200-289-5 | Non-classified | 1.4 |
| * 30% hydrogen peroxide / 01-2119485845-22-xxxx | 7722-84-1 / 231-765-0 (008-003-00-9) | Acute tox. (if swallowed) 4, H302 Serious eye dam. 1, H318 Acute tox. (if inhaled) 4, H332 (specific concentrations: Ox. liq. 1, H271 ≥ 70%; Ox. liq. 2, H272 ≥ 50 – <70%; Skin corr. 1A, H314 ≥ 70%; Skin corr. 1B, H314 ≥ 50 – <70%; Skin irrit. 2, H315 ≥ 35 – <50%; Serious eye dam. 1, H318 ≥ 8 – <50%; Serious eye irrit. 2, H319 ≥ 5 – <8%.) | 0.4 |
| * butanone ethyl methyl ketone / 01-2119457290-43-xxxx | 78-93-3 / 201-159-0 (606-002-00-3) | Flam. liquids 2, H225 Serious eye irritation 2, H319 STOT SE 3, H336 (the central nervous system) | 0.479-0.599 |
| * 5-methyl-3-heptanone / 01-2119977137-28-xxxx | 541-58-5 / 208-793-7 (606-020-00-1) | Flam. liquids 3, H226 Serious eye irrit 2, H319 STOT SE 3, H335 (respiratory tract, when inhaling) (specific concentrations: STOT SE 3 ≥ 10%) | 0.0094-0.0117 |

* substances with occupational exposure limits (OEL).

The full text related to hazard (H) statements is provided in Section 16.6.

Section 4. FIRST AID MEASURES

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| In compliance with the requirements of Appendix II of the Regulation (EC) No. 1907/2006 (REACH) and the Regulation (EU) 2015/830 | Filling date: 2020-03-17 Date of last update: 2020-03-25 Version: 1 |
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4.1. Description of first aid measures

General information: In case of a suspicion or identification of a poisoning caused by this substance, contact a doctor or the Lithuania Poisons Control and Information Bureau by tel. (8~5) 236 20 52 or +370 687 53378. If the affected person lost consciousness, he or she must not be given anything to drink and nothing must be placed into their mouth. A personal protective equipment must be used when providing aid.

In case of a skin contact: wash with water and soap.

If in eyes: Do not rub your eyes, with the head tilted and eyes wide open, rinse/wash thoroughly with water, under the eyelids as well. If possible, remove eye lenses and rinse/wash the eyes with water again. Rinse/wash no less than 15 minutes. Contact a medical professional / eye doctor immediately.

If swallowed: Rinse the mouth with water, drink water. Contact a medical facility.

If inhaled: Lead the affected person to the fresh air. Loosen breathing-restricting clothing. In case of feeling unwell or having symptoms, seek medical attention.

4.2. Most important acute and delayed symptoms and indications

Eyes: Redness, tearing, dense blinking, increased light sensitivity.

Skin: Dry, cracked skin. Appeared itching, rash, redness. Skin sensitivity, irritation.

If inhaled: Headache, dizziness, drowsiness. Nausea, respiratory tract irritation, general weakness are possible.

If swallowed: Bitterness in the mouth, nausea.

4.3. Directions for the emergency medical care and the special treatment: A symptomatic treatment, symptoms similar to alcohol poisoning. A long-term effect in case of inhaling vapours, it may have a narcotic effect. Poisoning symptoms may not appear immediately, therefore, the general medical monitoring is recommended at least for 24 hours after the accident.

Section 5. FIRE-PROTECTION MEASURES

5.1. Firefighting measures

Suitable firefighting measures: Dry chemicals, sand, dolomite, carbon monoxide, dry powder, spray water, water mist / haze. Bigger flames should be extinguished by the alcohol resistant firefighting foam.

Unsuitable measures: a strong water stream.

5.2. Special hazard caused by the substance or mixture: a highly flammable product. In case of fire, harmful/irritating gas/vapours, which together with air may form an explosive air/vapour mixture, are emitted. Vapours may spread to an ignition source and increase the risk of fire. Waste formed during firefighting, a contaminated firefighting solution must be collected and placed into containers, they must not be allowed to get into the environment, household canalization. If possible, seal potential drain holes, close ways of it getting into subsoil/surface waters, isolate the firefighting location, collect / isolate waste formed during firefighting, firefighting solutions, other products formed during firefighting, because they can pollute the environment.

5.3. Directions for firefighters:

Protective measures: Hot containers should be cooled by spraying water.

Protective equipment: Wear appropriate firefighting clothing and use a self-contained breathing apparatus. The firefighting clothing in compliance with the European standard EN 469 (including helmets, protective footwear and gloves) will ensure the basic protection level in accidents involving chemical agents.

Section 6. EMERGENCY RESPONSE MEASURES

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6.1. Personal precautionary measures, protective measures and emergency procedures

6.1.1. For non-emergency employees: Do not inhale, swallow. Avoid contact with skin, eyes. Evacuate from the accident zone safely and as quickly as possible, adhere to the direction of emergency responders. If an opportunity arises, wash yourself and change clothes.

6.1.2. For emergency responders: In case of a spread of the product, halt the works, evacuate persons not participating in the emergency response. Create conditions for washing, collect contaminated clothing, if possible, place them separately/isolate. Provide appropriate/suitable exhaust ventilation. Beware of it getting into eyes, inhaling it, avoid contact with skin. Wear chemical resistant protective clothing, hermetic goggles, gloves (Section 8). Ensure that cleaning would only be performed by properly trained staff.

6.2. Ecological safety measures: Avoid the concentrated product getting into soil, water bodies, canalization, drainage systems. In case of an extensive spilling, isolate the scene of the accident, inform appropriate agencies, call firefighting and rescue services.

6.3. Isolation and cleaning procedures and products: Stop the spread, absorb spread quantities by sand, gravel, universal binding agent, other inflammable absorbing material, sweep / scoop up and place into a suitable marked tightly closed container and dispose of in accordance with the requirements of national legal acts (Section 13). Avoid the formation of vapours / aerosol. Wash the residue with water. Small spilled quantities may be washed off with water. Collect the formed cleaning solutions mechanically/manually or in a technical/automated manner (e. g. by appropriate pumps) using indicated personal protection equipment. Remove in accordance with the requirements of legal acts. In case of an extensive spillage, install barriers and protective embankments, do not allow the spilled product to get into drain pipes, watercourse, basements, other enclosed compartments. If the product gets into the canalization, and/or surface/subsoil water, is spilled in large quantities and/or over a significant area – inform appropriate agencies.

6.4. Reference to other sections: The information on safe use and storage is provided in Section 7; the information on personal protective equipment is provided in Section 8; the information on substance disposal is provided in Section 13.

Section 7. USE AND STORAGE

7.1. Precautionary measures related to a safe use

7.1.1. Specialised recommendations:

Information on a safe use: Adhere to recommendations provided in Section 8; dispose of it in accordance with directions given in Section 6.3 and 13.

Information on the protection from fire and explosion: Store in a cool dry well-ventilated place, protect from cold/heat, sparks and flames. Protect from direct sunlight, UV exposure, physical impact. Ground and secure the container and the receipt equipment. Use explosion-resistant electric / ventilation / light equipment. Use non-sparking tools. Take measures to avoid static discharge.

The containers must not be welded, heated, cut, drilled, hit, thrown, grinded, damaged, abraded and otherwise physically interacted with. Keep fire extinguishers in easily accessible places. Install a fire alarm system, ensure an easy access to non-flammable absorbent substances.

Preventative measures for the formation of aerosol and dust: Ensure that large concentrations of vapours / aerosol do not form in the air. Ensure a proper ventilation.

Incompatible materials: explosive, oxidising, flammable, organic peroxides, oxidizing agents, corrosive, alkaline/acidic substances, alcohol, amines.

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Environmental protection measures: Do not allow spillage into the canalization and/or surface/subsoil water, drainage systems.

7.1.2. Information on work hygiene: During usage, do not eat, smoke or drink. Wash hands before breaks and after working with the product. Avoid getting it into the eyes, on skin or clothing. Do not inhale, swallow or drink. Practice good hygiene habits.

7.2. Safe storage conditions, including all incompatibilities

Requirements applicable for warehouses and containers: Store in a well-ventilated place. Keep a container tightly closed and locked away from food, drinks and animal feed, in a vertical position, protected from falling, in a dry and cool place inaccessible for unauthorized persons. Containers must be properly marked, original, protecting the product from external air, water, sun and/or mechanical impurities.

Any type of package supplied to the general public must be marked by tactile warning devices (TWD). Requirements of child-resistant closing devices (CFR) are not applicable for the package.

It is prohibited to weld, heat, cut, drill holes in the package despite it being with or without the product. Protect from freezing, physical impact, friction, significant changes in pressure. Avoid direct sunlight, heat, ignition sources, heated surfaces. The floor must be installed in such a way that an accidental spillage of the product could not spread widely. Warehouses must be equipped with an appropriate mechanical / exhaust ventilation. At a storing facility, the equipment and absorbent substances for isolating / collecting / cleaning the spilled product must be prepared for use. Fire extinguishers and/or other fire-fighting equipment must be easily and quickly accessible. Containers must be sealed, resistant to the product impact, only original. The storage temperature is +5 - +25°C.

References for unsuitable storing in one container: A contact with unpacked chemical agents is to be avoided. Do not store with: explosive materials; compressed gas; substances which are liquified and dissolved under pressure; highly flammable liquids and hard materials; organic peroxides and other oxidizing materials; materials, which produce flammable gas when in contact with water; alkaline and corrosive materials.

Other information on storage conditions: Ensure that even a small amount of the product would not be spilled. To avoid contamination and shortened shelf life, do not return the spilled product into packages. Do not dispose of the product in landfills and/or canalization system. Product residue still remains in an empty package, therefore, it may be dangerous. Do not use unprocessed packages again.

7.3. Concrete type(s) of end use: There is no other use other than provided in Section 1.2.

Section 8. EXPOSURE PREVENTION (PERSONAL PROTECTION)

During the usage of personal protective equipment (PPE), additional measures must be implemented: work duration (exposure duration) should reflect additional physiological stress experienced by the employee due to the usage of PPE. Moreover, the usage of certain PPE is considered to cause the reduction of an employee's abilities to use certain tools and communicate. Due to these reasons, an employee must be: healthy (special attention must be paid to health issues that may affect PPE usage), and the impermeability/sealing between the body and PPE must be ensured (taking into account such factors as scars, hairiness, etc.).

When the substance concentration in a workplace is identified and known, PPE is used with the consideration of the identified concentration of the chemical agent manifesting in the workplace and the exposure duration of an employee as well as the operating conditions. If the substance concentration in a workplace is not known, PPE must be used in accordance with the highest recommended safety class.

The employer must ensure that the PPE used is suitable for the performance of all tasks anticipated by operating conditions (cleaning, technical maintenance, repairs, deactivation, etc.).

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The employer and self-employed persons are legally liable for the issuance and management of PPE by using it properly in a workplace. Therefore, they should define and document the suitable PPE usage policy, including the training of employees.

8.1. Control parameters

8.1.1. Professional occupational exposure limits (OEL): not applicable for the end product (mixture).

Components with professional occupational exposure limits established in the European Union and/or member states:

| | | |
|--|---|-----------------|
| Ethanol (64-17-5) | 8 hours – 1,900 mg/m ³ (Austria, Belgium, Denmark, Finland, France, Hungary, Poland, Romania); 1,000 mg/m ³ (Latvia, Sweden, Germany AGS) 15 min – 2,000 mg/m ³ (Austria, Denmark); 1,000 mg/m ³ (Germany AGS, Ireland, Spain, Sweden) | GESTIS database |
| Glycerol (56-81-5) | 8 hours – 10 mg/m ³ (Belgium, France, Ireland, Poland, Spain); 20 mg/m ³ (Finland); 200 mg/m ³ (Germany AGS, inhaled fraction) 15 min – 400 mg/m ³ (Germany AGS) | GESTIS database |
| hydrogen peroxide (7722-84-1) | 8 hours – 1.4 mg/m ³ (Austria, Belgium, Denmark, Finland, Spain, Sweden); 1.5 mg/m ³ (France, Ireland); 0.71 mg/m ³ (Germany DFG) 15 min – 2.8 mg/m ³ (Austria, Denmark, Ireland); 4.2 mg/m ³ (Finland); 0.71 mg/m ³ (Germany DFG) | GESTIS database |
| butanone ethyl methyl ketone (78-93-3) | 8 hours – 600 mg/m ³ (European Union); 15 min – 900 mg/m ³ (European Union) | GESTIS database |
| 5-methyl-3-heptanone (541-85-5) | 8 hours – 53 mg/m ³ (European Union); 15 min – 107 mg/m ³ (European Union) | GESTIS database |

Components with professional occupational exposure limits established in the Republic of Lithuania:

| | | |
|--|---|---------------------------------|
| Ethanol (64-17-5) | LTEL – 1,000 mg/m ³ , STEL – 1,900 mg/m ³ | LR HN 23:2011 (from 2020-01-17) |
| Hydrogen peroxide (7722-84-1) | LTEL – 1.4 mg/m ³ , STEL – 3 mg/m ³ Acute impact | LR HN 23:2011 (from 2020-01-17) |
| Butanone (methyl ethyl ketone) (78-93-3) | LTEL – 600 mg/m ³ , STEL – 900 mg/m ³ | LR HN 23:2011 (from 2020-01-17) |
| 5-methylheptanone-3 (ethylamylketone) (541-85-5) | LTEL – 53 mg/m ³ , STEL – 107 mg/m ³ | LR HN 23:2011 (from 2020-01-17) |

8.1.2. Recommended monitoring procedures: Ensure constant / regular technical monitoring of parameters in accordance with provided / available technical specifications / instructions. During monitoring procedures / monitoring, adhere to the “Regulation of the Protection of Employees from Chemical Agents at Workplaces” of the Republic of Lithuania, the current edition is from 2020-01-17 to 2021-01-30.

Other standards in force in EU states:

EN 689 Workplace Exposure – measurement of exposure by inhalation to chemical agents

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EN 14042 Workplace atmospheres – guide for the application and use of procedures for the assessment of exposure to chemical and biological agents

EN 482 Workplace atmospheres – general requirements for the performance of procedures for the measurement of chemical agents

8.1.3. Biological limit values: no biological limit values were established for the mixture

Components with an established biological limit value: none

8.1.4. Derived No-Effect Level (DNEL) and Predicted No-Effect Concentration (PNEC): not established for the mixture

Components with an established DNEL and/or PNEC:

| | |
|--|--|
| Ethanol (64-17-5) | <p>Derived No-Effect Level (DNEL): If inhaled – 950 mg/m³ (employee, systematic – long-term exposure) Through skin – 343 mg/kg (employee, systematic – long-term exposure) If inhaled – 114 mg/m³ (general population, systematic – long-term exposure) Through skin – 206 mg/kg (general population, systematic – long-term exposure) If swallowed – 87 mg/kg (general population, systematic – long-term exposure)</p> <p>Predicted No-Effect Concentration (PNEC): Water (fresh) 0.96 mg/L, intermediate releases (fresh water) 2.75 mg/L Water (sea) 0.79 mg/L STP 580 mg/L, soil 0.63 mg/kg</p> |
| Glycerol (56-81-5) | <p>Derived No-Effect Level (DNEL): If inhaled – 56 mg/m³ (employee, local – long-term exposure) Through skin – threshold value is not determined / no dose – response information If inhaled – 33 mg/m³ (general population, local – long-term exposure) Through skin – threshold value is not determined / no dose – response information If swallowed – 229 mg/kg (general population, systematic – long-term exposure)</p> <p>Predicted No-Effect Concentration (PNEC): Water (fresh) 0.885 mg/L, intermediate releases (fresh water) 8.85 mg/L Water (sea) 0.088 mg/L STP 1,000 mg/L, soil 0.141 mg/kg</p> |
| Hydrogen peroxide (7722-84-1) | <p>Derived No-Effect Level (DNEL): If inhaled – 1.4 mg/m³ (employee, local – long-term exposure) If inhaled – 3 mg/m³ (employee, local – short-term exposure) Through skin – threshold value is not determined If inhaled – 0.21 mg/m³ (general population, local – long-term exposure) If inhaled – 1.93 mg/m³ (general population, local – short-term exposure) Through skin – threshold value is not determined If swallowed – threshold value is not determined</p> <p>Predicted No-Effect Concentration (PNEC): Water (fresh) 0.013 mg/L, intermediate releases (fresh water) 0.014 mg/L Water (sea) 0.013 mg/L STP 4.66 mg/L, soil 0.002 mg/kg</p> |
| butanone ethyl methyl ketone (78-93-3) | <p>Derived No-Effect Level (DNEL): If inhaled – 600 mg/m³ (employee, systematic – long-term exposure) Through skin – 1,161 mg/kg (employee, systematic – long-term exposure) If inhaled – 106 mg/m³ (general population, systematic – long-term exposure) Through skin – 412 mg/kg (general population, systematic – long-term exposure)</p> |

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If swallowed – 31 mg/kg (general population, systematic – long-term exposure)

Predicted No-Effect Concentration (PNEC):

Water (fresh) 55.8 mg/L, intermediate releases (fresh water) 55.8 mg/L

Water (sea) 55.8 mg/L

STP 709 mg/L, soil 22.5 mg/kg

5-methylheptanone-3
(ethylamylketone)
(541-85-5)

Derived No-Effect Level (DNEL):

If inhaled – 10.759 mg/m³ (employee, systematic – long-term exposure)

Through skin – 3 mg/kg (employee, systematic – long-term exposure)

Predicted No-Effect Concentration (PNEC):

Water (fresh) 0.04 mg/L, intermediate releases (fresh water) 0.4 mg/L

Water (sea) 0.004 mg/L

STP 25 mg/L, soil 0.17 mg/kg

8.1.5. Qualitative risk assessment and risk management in a work environment: When a product contains components with occupational exposure limits, a work environment and/or biological factors may be requested to be monitored individually during a qualitative risk assessment and risk management in a work environment in order to assess the sufficiency of risk management measures and/or operating conditions as well as various controlled parameters.

8.2. Exposure control

8.2.1. Information on the adaptation of technical equipment. The work duration is not limited (up to 480 minutes per shift, 5 shifts per week). Ensure a regular air quality control of a work environment, perform constant parameter monitoring in accordance with the requirements of the technical requirements. Ensure the presence of the equipment for washing hands/eyes in the vicinity of a workplace, protective showers are recommended. Take care of good industrial hygiene.

8.2.2. General protective and hygienic measures: Do not eat, drink, smoke in the workplace in order to avoid contact with skin, entering into mouth and eyes, wear personal protective measures. Wash yourself before breaks and after work using appropriate measures (soap, etc.). After work, take off contaminated/dirty clothes, remove footwear, goggles, other contaminated items and clean/wash them using appropriate cleaning/washing supplies (washing powder, etc.) before using again. Use a certified protective equipment in compliance with the EU requirements and standards or equivalents, when a risk cannot be avoided or sufficiently limited using technical collective protection measures, methods and work organization procedures.

Eyes/face protective equipment



When working with the product, sealed protective eyewear, shield is recommended (EN 166).

Hand and skin protective equipment



When handling the product, wearing impervious, abrasion, alkaline / acid resistant, protective gloves (EN 374) is recommended. The suitable material for protection against short-term exposure is nitrile rubber and butyl rubber. Gloves should have a thickness of at least 0.1 mm and a breakthrough time of > 240 min. For long-term/permanent use, gloves from neoprene, pliviny chloride, butyl or natural rubber with a material thickness of 0.3 – 0.4 mm, and breakthrough time > 480 min are suitable.

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Other skin protective equipment



No special requirements are applied. Full-body covering clothes resistant to the product exposure are recommended for wear (EN 14605). Ensuring clothes to be antistatic, protective and non-electric is recommended. Avoid the product getting into footwear. Select personal protection equipment in accordance with the concentration and amount of dangerous substances in a workplace.

Respiratory protective equipment



Not applicable under normal conditions of use / handling. However, in case of insufficient ventilation and long-term / constant exposure, the usage of individual respiratory protective equipment with a filter protecting against organic vapours or aerosol (EN 143, 14387) or filtering half masks with valve protection from gases (EN 149) may be necessary. When choosing a respirator, the known or presumed exposure levels, the danger of the product and the limits of safe work with a selected respirator must be taken into account.

Thermal protection: protective measures while working with highly flammable chemical mixtures/substances.

8.2.3 Environmental impact control: check emissions from the ventilation and industrial equipment in order to ensure their compliance with the requirements of environmental legal acts. In some cases, in order to reduce emissions to an acceptable level, vapour filters, engineering improvements, purifiers may need to be installed or work processes/equipment may need to be modified.

Air: the control of the product exposure to the environmental air must be carried out in accordance with the current general methodology for the calculation of dust particle emissions and established legal acts.

Water: the control of the product exposure to the environmental water must be carried out in accordance with the wastewater discharge procedure and established methods/criteria of calculating the release into the environment.

Soil and terrestrial environment: the control of the product exposure to the soil and terrestrial environment must be carried out in accordance with the wastewater discharge procedure and established methods/criteria of calculating the release into the environment.

Section 9. PHYSICOCHEMICAL PROPERTIES

9.1. Information on main physicochemical properties

The information is provided in accordance with physicochemical properties of the denatured ethyl alcohol mixture constituting the basis of the mixture (made in accordance with the WHO formula 5).

| | |
|---|-----------------------------------|
| Appearance | Transparent liquid |
| Odour: | Alcohol |
| Odour appearance threshold | Not applicable / no data |
| pH value | Not applicable |
| Melting/freezing point | -114°C |
| Initial boiling temperature and boiling temperature range | 78-81°C (with 101.3 kPa pressure) |
| Flash point | 12-14°C (closed cup method) |
| Evaporation rate | Not applicable / no data |
| Flammability | Very flammable |
| Flammability threshold or explosiveness limit values | |
| • Lower limit | 2.5-3.3°C |
| • Upper limit | 15-19°C |

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| Vapour pressure | 78.7-79.1 hPa (at 25°C) |
| Vapour density (air = 1) | 1.6 |
| Relative density: | No data |
| Water solubility | Soluble |
| Partition coefficient: n-octanol/water | (-0.30) – (-0.35) |
| Spontaneous ignition temperature | >360°C |
| Decomposition temperature | No data |
| Viscosity | 1.17-1.22 mPa/s |
| Explosive properties; | Vapours with air may form an explosive mixture |
| Oxidizing properties | Oxidises when affected by strong oxidants. |

9.2. **Other information:** none

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity: Stable in recommended conditions of regular use and storage.

10.2. Chemical stability: Stable in recommended conditions of regular use and storage.

10.3. Possibility of hazardous reactions: No hazardous reactions in recommended conditions of regular use and storage.

10.4. Avoidable conditions: contamination / reaction with flammable substances, alkalis, strong acids, oxidants, amines. High/low temperature, heat/cold sources, open flame, heated/hot surfaces, freezing.

10.5. Incompatible substances: explosive, oxidising, flammable, corrosive, alkaline/acidic substances, ethoxylated alcohol, amines.

10.6. Hazardous decomposition products: combustion products emitted during combustion (carbon oxides, nitrogen oxides, sulphur oxides, phosphorus oxides).

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxic impact

The product fulfils certain classification criteria for relevant risks to human health. Certain components reach / exceed established limit values / concentrations.

Acute toxicity: the product, in accordance with the criteria established in the CLP regulation (Appendix I, Section 3.1), is not classified as acute toxic / harmful if swallowed, inhaled and/or through skin. On the basis of available data, it does not comply with classification criteria.

Calculated ATE_{mix} of the mixture (if swallowed) = >10,000 mg/kg

ATE_{mix} (through skin) – not applicable

Calculated ATE_{mix} of the mixture (if inhaled) = >100 mg/kg

Related components:

| | |
|-------------------------------|--|
| hydrogen peroxide (7722-84-1) | LD50 (if swallowed) >300 - < 2,000 mg/kg (established ATE 500) LC50 (if inhaled) >10 - < 20 mg/L (established ATE 11) |
|-------------------------------|--|

Skin corrosion / irritation: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.2), is not classified as corrosive / irritating to the skin. On the basis of available data, it does not comply with classification criteria.

Related components:

| | |
|-------------------------------|--|
| hydrogen peroxide (7722-84-1) | Corrodes skin (OECD 431 <i>in vitro</i> skin corrosion test). Established spec. concentrations: Skin cor. 1A, H314 ≥ 70%; Skin cor. 1B, H314 ≥ 50-70%; Skin irrit. 2, H315 ≥ 35 - <50%; |
|-------------------------------|--|

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Serious eye damage / irritation: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.3), is classified as causing serious eye irritation. On the basis of available data, it complies with classification criteria.

Related components:

| | |
|---|---|
| Ethanol (64-17-5) | Causes serious eye irritation (OECD 492 in vitro testing method). Established spec. concentrations: Serious eye irrit. >50%; |
| hydrogen peroxide (7722-84-1) | Corrodes skin (OECD 431 <i>in vitro</i> skin corrosion test) Established spec. concentrations: Serious eye damage 1, H318 ≥ 8 - <50%; Serious eye irrit. 2, H319 ≥ 5 - <8%; |
| butanone ethyl methyl ketone (78-93-3) | Causes serious eye irritation (OECD 492 in vitro testing method). |
| 5-methyl-3-heptanone (541-85-5) | Causes serious eye irritation (OECD 492 in vitro testing method). |

Respiratory sensitization: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.4), is not classified as respiratory sensitizing. On the basis of available data, it does not comply with classification criteria.

Related components: none

Skin sensitization: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.4), is not classified as skin sensitizing. On the basis of available data, it does not comply with classification criteria.

Related components: none

Mutagenic impact: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.5), is not classified as a mutagen. On the basis of available data, it does not comply with classification criteria.

Carcinogenicity: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.6), is not classified as carcinogenic. On the basis of available data, it does not comply with classification criteria.

Toxicity to reproduction (fertility/development): the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.7), is not classified as toxic to the reproduction. On the basis of available data, it does not comply with classification criteria.

Related components: none

STOT SE: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.8), is not classified as specifically toxic to target organ (single exposure). On the basis of available data, it does not comply with classification criteria.

Related components:

| | |
|---|---|
| butanone ethyl methyl ketone (78-93-3) | May cause drowsiness or headache (coordinated classification, weight of evidence method, WoE) |
| 5-methyl-3-heptanone (541-85-5) | May irritate the respiratory tracts (coordinated classification, weight of evidence method, WoE). Established spec. concentrations: STOT SE, 3 ≥ 10%. |

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|--|--|
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STOT RE: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.9), is not classified as specifically toxic to target organ (repeated exposure). On the basis of available data, it does not comply with classification criteria.

Related components: none

Risk of aspiration: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 3.10), is not classified as causing the risk of aspiration. On the basis of available data, it does not comply with classification criteria.

Related components: none

Symptoms related to physicochemical and toxic properties and a delayed, acute and chronic impact due to a short-term or long-term contact with the substance: a short-term, light skin contact may cause mild skin irritation, itching, redness, rash. Long-term contact with open skin may cause skin dryness or cracking. Eye contact is characterized by irritation, possible corneal / retinal damage, tearing, rheum, irritation. A cataract inflammation is possible. Ingestion or inhalation may cause a mild acute intoxication, it may include increased respiration, nausea, vomiting, headache and dizziness, hypertension. The ingestion or inhalation of high doses may cause poisoning, loss of consciousness, seizures, uncoordinated movements, spasms, convulsions.

Section 12. ECOLOGICAL INFORMATION

12.1. Acute/chronic eco-toxicity to the environment

Acute eco-toxicity: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 4.1), is not classified as acutely toxic to the water environment. On the basis of available data, it does not comply with classification criteria.

Chronic eco-toxicity: the mixture, in accordance with the criteria established in Appendix I of the CLP regulation (Section 4.1), is not classified as toxic / harmful to the water environment over a long period. On the basis of available data, it does not comply with classification criteria.

Related components: none

12.2. Durability and degradability: The degree of degradation of the final product (mixture) is not determined. According to the available data, the components of the mixture are classified as rapidly degradable. Component degradability rate is >70% within 28 days. The degree of biodegradability of active surfactants in the sanitizer corresponds to the requirements of the Detergent Regulation No. 648/2004/EC.

12.3. Bioaccumulation potential: The bioaccumulation potential of the final product (mixture) is not determined. Components of the mixture do not have a bioaccumulation potential. Component logKow / log Pow <4 and/or BCF <500.

12.4. Mobility in soil: The mobility in soil of the final product (mixture) is not determined. Absorption coefficients of components are not determined.

12.5. PBT and vPvB assessment results: **PBT:** not applicable; **vPvB:** not applicable. Neither the mixture nor components of the mixture comply with PBT and/or vPvB criteria according to Appendix XIII of the REACH Regulation.

12.6. Other adverse effects: large quantities may harm the natural balance of water ecosystems, the natural cycle of an ecosystem. It may have an effect on plants, plankton and other living nature.

Section 13. WASTE MANAGEMENT

13.1. Waste management methods

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| In compliance with the requirements of Appendix II of the Regulation (EC) No. 1907/2006 (REACH) and the Regulation (EU) 2015/830 | Filling date: 2020-03-17 Date of last update: 2020-03-25 Version: 1 |
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Recommendations: it is prohibited to dispose of the product waste into a local and / or storm sewage, surface water bodies, natural environment. It must not be disposed of with household waste, into wastewater. The waste must be managed in accordance with the Waste Management Rules and the Law on Waste Management.

Hazardous waste properties attributed: HP 4 (causing irritation)

Waste management code:

Depending on the type of use and the waste generated, the end-user / manager assigns the final disposal code based on identified toxicological and physicochemical properties of the waste in accordance with appropriate identification methods as defined by EU and national legislation.

Contaminated packaging: 15 01 10* packages containing residues of or contaminated by hazardous substances (MH). Empty a container completely and dispose of it in accordance with legal acts in force.

Warning: empty containers may contain residues of hazardous substances. Do not attempt to refill or clean the container without proper instructions. Empty containers must be reused, recycled, disposed of or submitted to a contractor who carries out such works and has an appropriate license issued in accordance with legal acts in force. Protect containers from excessive pressure, do not cut, weld, solder, drill, grind them, do not store in a heat. Protect from flames, sparks, static electricity and other sources of ignition.

Section 14. INFORMATION ON SHIPPING

The shipping requirements and classification of hazardous materials (IMDG, IATA, ADR/RID) are applicable to the product.

| | ADR – roads RID - railway | ADNR – waterways IMDG – sea | IATA – air |
|---|--|--|--|
| 14.1. UN number | 1170 | 1170 | 1170 |
| 14.2. Correct cargo name | ETHANOL SOLUTION (ethyl alcohol solution) | ETHANOL SOLUTION (ethyl alcohol solution) | ETHANOL SOLUTION (ethyl alcohol solution) |
| 14.3. Shipping hazard class | 3 | 3 | 3 |
| 14.4. Classification code | F1 | F1 | F1 |
| 14.5. Packaging group | II | II | II |
| 14.6. Hazard marking | 3 | 3 | 3 |
| 14.7. Environment hazards | NO | NO | NO |
| Shipping of unpacked cargo in accordance with Appendix II of the MARPOL73/78 and IBC code | | Not applicable | |

Section 15. INFORMATION ON REGULATION

Regulation No. 1907/2006/EC (REACH):

- ✓ SVHC (List of substances of very high concern): Not applicable
- ✓ REACH Appendix XIV (List of substances subject to authorisation): Not applicable
- ✓ REACH Appendix XVII (List of restricted substances): Not applicable

Regulation No. 649/2012/EC (PIC): Not applicable

Regulation No. 850/2004/EC (POT): Not applicable

Regulation No. 1005/2009/EC (OSAM): Not applicable

Regulation No. 1107/2009/EC (Plant protection products): Not applicable

Directive No. 2004/37/EC (carcinogens/mutagens): Not applicable

15.1. Safety, health and environmental legal acts related to the certain substance or mixture

| | |
|--|--|
| In compliance with the requirements of Appendix II of the Regulation (EC) No. 1907/2006 (REACH) and the Regulation (EU) 2015/830 | Filling date: 2020-03-17 Date of last update: 2020-03-25 Version: 1 |
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Relevant / applicable in EU / international legal acts:

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH);
 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 (CLP);
 Regulation (EU) No. 2015/830 of the European Commission of 28 May 2015 (SDS requirements);
 Regulation (EU) No. 440/2008 of the European Commission of 30 May 2008 (Test methods);
 Regulation (EU) No. 2016/425 of the European Parliament and of the Council of 9 March 2016 (personal protective equipment);
 Regulation (EC) No. 648/2004 of the European Parliament and of the Council of 31 March 2004 (regulation on detergents);
 Regulation (EU) No. 528/2012 of the European Parliament and of the Council of 22 May 2012 (biocidal products);
 Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 (waste);
 Directive 2012/18/EU of 4 July 2012 (control of major accidents (SEVESO));
 Directive 98/24/EU of 7 April 1998 (safety and health protection of employees from chemical agents);
 Directive 89/391/EEC of 12 June 1989 (WHS);
 Directive 94/33/EEC of 22 June 1994 (protection of young people at work);
 The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR);
 The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (IMDG);
 The European Agreement concerning the International Carriage of Dangerous Goods by Air (IATA); Commission Decision 2000/532/EC of 3 May 2000 (list of hazardous waste (LoW));

Relevant national legal acts (of the Republic of Lithuania):

Order No. 97/406 "On Regulations on Protecting Employees from Exposure to Chemical Agents at Work and Regulations on Protecting Employees from Exposure to Carcinogens and Mutagens at Work" of 24 July 2001 (current version from 2020-01-17).
 Order No. V-824/A1-389 on the Lithuanian Hygienic Norm HN 23:2011 "Occupational Exposure Limits for Chemical Substances. General Requirements for Measurement and Impact Assessment" of 1 September 2011 (current version from 2020-01-17).
 Order No. 217 on "Rules on Waste Management" of 14 July 1999 (current version from 2018-12-06).
 Order No. D1-462 on "Description of the Procedure for the Provision, Collection, Accumulation and Further Distribution of the Data and Information on Chemicals and Agents Produced, Imported, Distributed, Exported and Used in Industrial, Professional or Other Economic Activities in the Republic of Lithuania, Their Properties, Potential Effects on Human Health or Environment" of 12 October 2006 (current version from 2015-11-01).
 Order No. D1-360 on "Description of the Accounting Procedure of Chemicals and Agents" of 2 July 2008 (current version from 2016-01-28).

Note: all subsequent updates, revisions and / or amendments of legal acts should be considered in a corresponding manner. The list of legal acts is not final.

15.2. Chemical safety assessment: In accordance with Article 14 of the REACH Regulation, a chemical safety assessment has not been performed.

Section 16. OTHER INFORMATION

16.1. References to revisions: The provided information complies with the requirements of Appendix II of the REACH Regulation No. 1907/2006 EC and the Regulation No. 2015/830. First edition. Date: 2020-03-10.

16.2. Employed mixture classification methods: the mixture classification is based on known / determined physicochemical properties of the mixture, the available (eco) toxicological information of the components and on the basis of the classification and concentration of the components, taking into account established specific

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concentrations and / or determined / estimated values of the acute point estimate guided by the requirements of the CLP Regulation No. 1272/2008.

| | |
|-----------------------|---|
| Physical hazards | In accordance with established / approved test methods (in accordance with the main component the mixture of denatured ethyl alcohol). |
| Health hazards | The component and concentration method (estimation method) taking into account the determined specific concentrations and available / known values. |
| Environmental hazards | |

16.3. Determined types of use, description and categories of usage: A sanitizer produced in accordance with the 1st WHO formula from the denatured ethyl alcohol. The mixture is designed for hand sanitization.

16.4. Abbreviations and acronyms

ADR/RID The European Agreement concerning the International Carriage of Dangerous Goods by Road/Railway
(AH) Absolute hazardous
ATE Acute toxicity estimate
CAS Chemical abstracts service
CLP Classification, Labelling and Packaging; Regulation (EC) No. 1272-2008
DNEL Derived No-Effect Level
EC50 Half maximal effective concentration
ECHA European Chemicals Agency
EINECS European Inventory of Existing Commercial chemical Substances
ERC Environmental release category
EWC European waste catalogue
H&S Health and safety
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods Code
LD50 Lethal dose, 50% of tested population
LTEL Long-term exposure limit
MEASE Metals Estimation and Assessment of Substance Exposure
(MH) Mirror Hazardous
MS Member states
N/E Not explored
NTP National Toxicology Program
OELV Occupational Exposure Limit Value
OSHA Occupational Safety and Health Administration
PBT persistence, bioaccumulative and toxic
PC Chemical category
PE Protection equipment
PNEC Predicted No Effect Concentration
PROC Process category
RAC Committee for Risk Assessment of the European Chemicals Agency
RE Repeated exposure
REACH Registration, Evaluation, Authorization and Restriction of Chemicals
SCOEL Scientific Committee on Occupational Exposure Limits
SDL Safety Data Sheet
SE Single Exposure

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STEL Short-term exposure limit

STOT Specific Target Organ Toxicity

STP Sewage treatment plant

SU Sector of Use

SVHC The list of substances of very high concern

TLV-TWA The allowable time weighted average concentration

VLE-MP Exposure limit value-weighted average in mg by cubic meter of air

vPvB very Persistent and very Bioaccumulative

16.5. Employed sources: Information provided by the manufacturer, safety data sheets of components, European Chemicals Agency (ECHA), Occupational Safety and Health Administration (OSHA), European Food Safety Authority (EFSA), Organization for Economic Co-operation and Development (OECD), Germany IFA database (GESTIS), Swedish Chemicals Agency (KemI), International Laboratories Organizations (ILO), TOXNET and data available / provided in other databases.

16.6. All related hazard (H) statements provided in Sections 2 and/or 3:

| | | |
|---|------|--|
| Flammable liquids, category 2 | H225 | Highly flammable liquid and vapours |
| Flammable liquids, category 3 | H226 | Flammable liquid and vapours |
| Oxidizing liquids, category 1 | H271 | May cause fire or explosion; strong oxidiser |
| Oxidizing liquids, category 2 | H272 | May intensify fire; oxidiser |
| Acute toxicity (if swallowed), category 4 | H302 | Harmful if swallowed |
| Skin corrosion, category 1 | H314 | Causes severe skin burns and eye damage |
| Skin irritation, category 2 | H315 | Causes skin irritation |
| Serious eye damage, category 1 | H318 | Causes serious eye damage |
| Serious eye irritation, category 2 | H319 | Causes serious eye irritation |
| Acute toxicity (if inhaled), category 4 | H332 | Harmful if inhaled |
| Specific target organ toxicity, single exposure, category 3 | H335 | Causes respiratory tract irritation |
| Specific target organ toxicity, single exposure, category 3 | H336 | May cause drowsiness or dizziness |

16.7. Information on training

Employees/users must be trained/acquainted with provided appropriate safety information.

16.8. Disclaimer

The data provided in the present safety data sheet must be available to everyone whose work is related to the chemical, agent. The data is based on our current knowledge and is intended to describe the chemical in terms of safety and health at work, and environmental aspects. The information in the safety data sheet will be updated as new data on the health and environmental effects of the agent, on preventive measures to reduce the risks or to eliminate them altogether becomes available. The information provided in the safety data sheet does not reveal any other specific properties of the substance or agent.

General note: When the SDS was being compiled in accordance with current lists and data provided by manufacturers / registrants of substances / mixtures. To our knowledge, physicochemical, (eco) toxicological properties of the mixture and its components have not been thoroughly investigated. The mixture itself was not the subject of (eco) toxicological studies, it was obtained by mixing ingredients whose (eco) toxicological biographies are more or less known. However, given that it is difficult to use / evaluate existing standard (eco) toxicological assessment methods for mixtures in order to predict any potential hazards to environmental components, humans with high sensitivity, society or hazards that may occur due to unforeseen conditions, this mixture, in all conditions, should be used and

SAFETY DATA SHEET



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handled as potentially harmful to the environment and human health and their treatment should include all possible precautions.