

**MediFresh Käsihuuhde Pro****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier:** MediFresh Käsihuuhde Pro

**Other means of identification:**

Non-applicable

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

Relevant uses: Disinfectant . For professional user only.

Uses advised against: All uses not specified in this section or in section 7.3

**1.3 Details of the supplier of the safety data sheet:**

Estko AS  
Kullerkupu 2  
75403 Kangru - Estonia  
Phone.: +372 679 0310 - Fax: +372 679 0301  
info@estko.ee  
www.estko.ee

**1.4 Emergency telephone number:** 112

**SECTION 2: HAZARDS IDENTIFICATION \*\***

**2.1 Classification of the substance or mixture:**

**CLP Regulation (EC) No 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319

Flam. Liq. 2: Flammable liquids, Category 2, H225

**2.2 Label elements:**

**CLP Regulation (EC) No 1272/2008:**

Danger



**Hazard statements:**

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

**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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

**2.3 Other hazards:**

Product fails to meet PBT/vPvB criteria

\*\* Changes with regards to the previous version

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Alcohols



**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

- CONTINUED ON NEXT PAGE -

**MediFresh Käsihuuhde Pro**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

| Identification   | Chemical name/Classification  | Concentration |
|--|---|---------------|
| CAS: 64-17-5<br>EC: 200-578-6<br>Index: 603-002-00-5<br>REACH: 01-2119457610-43-XXXX | ethanol <sup>(1)</sup> Self-classified  | 50 - <75 %    |
|  | Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger                                       |               |
| CAS: 75-65-0<br>EC: 200-889-7<br>Index: 603-005-00-1<br>REACH: 01-2119444321-51-XXXX | 2-methylpropan-2-ol <sup>(1)</sup> ATP ATP01  | 1 - <5 %      |
|  | Regulation 1272/2008 Acute Tox. 4: H332; Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H335 - Danger  |               |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**Other information:**

| Identification                           | Specific concentration limit      |
|--|-----------------------------------|
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6 | % (w/w) >=50: Eye Irrit. 2 - H319 |

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspilation:**

In case of consumption, seek immediate medical assistance showing the SDS for the product.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

**Suitable extinguishing media:**

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

- CONTINUED ON NEXT PAGE -

**MediFresh Käsihuuhte Pro****SECTION 5: FIREFIGHTING MEASURES (continued)****Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**6.2 Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

**6.3 Methods and material for containment and cleaning up:**

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling:****A.- Precautions for safe manipulation**

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

**B.- Technical recommendations for the prevention of fires and explosions**

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

**C.- Technical recommendations to prevent ergonomic and toxicological risks**

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

**7.2 Conditions for safe storage, including any incompatibilities:****A.- Technical measures for storage**

Maximum Temp.: 25 °C

Maximum time: 36 Months

**B.- General conditions for storage**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters:**

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**MediFresh Käsihuuhde Pro**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no occupational exposure limits for the substances contained in the product

**DNEL (Workers):**

| Identification                                       |            | Short exposure        |                | Long exposure         |                |
|--|------------|-----------------------|----------------|-----------------------|----------------|
|  |            | Systemic              | Local          | Systemic              | Local          |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6             | Oral       | Non-applicable        | Non-applicable | Non-applicable        | Non-applicable |
|  | Dermal     | Non-applicable        | Non-applicable | 343 mg/kg             | Non-applicable |
|  | Inhalation | Non-applicable        | Non-applicable | 950 mg/m <sup>3</sup> | Non-applicable |
| 2-methylpropan-2-ol<br>CAS: 75-65-0<br>EC: 200-889-7 | Oral       | Non-applicable        | Non-applicable | Non-applicable        | Non-applicable |
|  | Dermal     | Non-applicable        | Non-applicable | 5,5 mg/kg             | Non-applicable |
|  | Inhalation | 214 mg/m <sup>3</sup> | Non-applicable | 2,7 mg/m <sup>3</sup> | Non-applicable |

**DNEL (General population):**

| Identification                                       |            | Short exposure          |                | Long exposure         |                |
|--|------------|-------------------------|----------------|-----------------------|----------------|
|  |            | Systemic                | Local          | Systemic              | Local          |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6             | Oral       | Non-applicable          | Non-applicable | 87 mg/kg              | Non-applicable |
|  | Dermal     | Non-applicable          | Non-applicable | 206 mg/kg             | Non-applicable |
|  | Inhalation | Non-applicable          | Non-applicable | 114 mg/m <sup>3</sup> | Non-applicable |
| 2-methylpropan-2-ol<br>CAS: 75-65-0<br>EC: 200-889-7 | Oral       | Non-applicable          | Non-applicable | 0,3 mg/kg             | Non-applicable |
|  | Dermal     | Non-applicable          | Non-applicable | 2,7 mg/kg             | Non-applicable |
|  | Inhalation | 159,8 mg/m <sup>3</sup> | Non-applicable | 0,5 mg/m <sup>3</sup> | Non-applicable |

**PNEC:**

| Identification                                       |              |            |                         |             |  |
|--|--------------|------------|-------------------------|-------------|--|
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6             | STP          | 580 mg/L   | Fresh water             | 0,96 mg/L   |  |
|  | Soil         | 0,63 mg/kg | Marine water            | 0,79 mg/L   |  |
|  | Intermittent | 2,75 mg/L  | Sediment (Fresh water)  | 3,6 mg/kg   |  |
|  | Oral         | 0,38 g/kg  | Sediment (Marine water) | 2,9 mg/kg   |  |
| 2-methylpropan-2-ol<br>CAS: 75-65-0<br>EC: 200-889-7 | STP          | 690 mg/L   | Fresh water             | 2 mg/L      |  |
|  | Soil         | 1 mg/kg    | Marine water            | 0,2 mg/L    |  |
|  | Intermittent | 9,33 mg/L  | Sediment (Fresh water)  | 8,04 mg/kg  |  |
|  | Oral         | 88700 g/kg | Sediment (Marine water) | 0,804 mg/kg |  |

**8.2 Exposure controls:**

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Non-applicable



D.- Ocular and facial protection

Non-applicable

E.- Body protection

Non-applicable

F.- Additional emergency measures

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

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**MediFresh Käsihuuhe Pro**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                                       |
|---------------------------|---------------------------------------|
| V.O.C. (Supply):          | 75,7 % weight                         |
| V.O.C. density at 20 °C:  | 647,99 kg/m <sup>3</sup> (647,99 g/L) |
| Average carbon number:    | 2,06                                  |
| Average molecular weight: | 46,91 g/mol                           |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

**Appearance:**

|                          |                  |
|--------------------------|------------------|
| Physical state at 20 °C: | Liquid           |
| Appearance:              | Transparent      |
| Colour:                  | Colourless       |
| Odour:                   | Alcohol          |
| Odour threshold:         | Non-applicable * |

**Volatility:**

|  |                         |
|--|-------------------------|
| Boiling point at atmospheric pressure: | >35 °C                  |
| Vapour pressure at 20 °C:              | 4643 Pa                 |
| Vapour pressure at 50 °C:              | 22419,11 Pa (22,42 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *        |

**Product description:**

|  |                       |
|--|-----------------------|
| Density at 20 °C:                            | 856 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | 0,856                 |
| Dynamic viscosity at 20 °C:                  | 1,11 cP               |
| Kinematic viscosity at 20 °C:                | 1,32 cSt              |
| Kinematic viscosity at 40 °C:                | Non-applicable *      |
| Concentration:                               | Non-applicable *      |
| pH:  | Non-applicable *      |
| Vapour density at 20 °C:                     | Non-applicable *      |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *      |
| Solubility in water at 20 °C:                |                       |
| Solubility properties:                       | Non-applicable *      |
| Decomposition temperature:                   | Non-applicable *      |
| Melting point/freezing point:                | Non-applicable *      |
| Explosive properties:                        | Non-applicable *      |
| Oxidising properties:                        | Non-applicable *      |

**Flammability:**

|                            |                  |
|----------------------------|------------------|
| Flash Point:               | 21 °C            |
| Heat of combustion:        | Non-applicable * |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature:  | 423 °C           |
| Lower flammability limit:  | Not available    |
| Upper flammability limit:  | Not available    |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**MediFresh Käsihuuhde Pro**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

**Explosive:**

Lower explosive limit: Non-applicable \*

Upper explosive limit: Non-applicable \*

**9.2 Other information:**

Surface tension at 20 °C: Non-applicable \*

Refraction index: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight            | Humidity       |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable     | Not applicable   | Risk of combustion      | Avoid direct impact | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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**MediFresh Käsihuuhte Pro**

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.  
IARC: ethanol (1)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**E- Sensitizing effects:**

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**F- Specific target organ toxicity (STOT) - single exposure:**

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

**G- Specific target organ toxicity (STOT)-repeated exposure:**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**H- Aspiration hazard:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

| Identification                                       | Acute toxicity  |                      | Genus  |
|--|-----------------|----------------------|--------|
|  |                 |                      |        |
| 2-methylpropan-2-ol<br>CAS: 75-65-0<br>EC: 200-889-7 | LD50 oral       | 3500 mg/kg           | Rat    |
|  | LD50 dermal     | >2000 mg/kg          |        |
|  | LC50 inhalation | 11 mg/L (4 h) (ATEi) |        |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6             | LD50 oral       | 6200 mg/kg           | Rat    |
|  | LD50 dermal     | 20000 mg/kg          | Rabbit |
|  | LC50 inhalation | 124,7 mg/L (4 h)     | Rat    |

**Acute Toxicity Estimate (ATE mix):**

| ATE mix    |                                     | Ingredient(s) of unknown toxicity |
|------------|-------------------------------------|-----------------------------------|
| Oral       | >2000 mg/kg (Calculation method)    | Non-applicable                    |
| Dermal     | >2000 mg/kg (Calculation method)    | Non-applicable                    |
| Inhalation | 500 mg/L (4 h) (Calculation method) | 0 %                               |

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

| Identification                                       | Acute toxicity |                   | Species                | Genus      |
|--|----------------|-------------------|------------------------|------------|
|  |                |                   |                        |            |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6             | LC50           | 11000 mg/L (96 h) | Alburnus alburnus      | Fish       |
|  | EC50           | 9268 mg/L (48 h)  | Daphnia magna          | Crustacean |
|  | EC50           | 1450 mg/L (192 h) | Microcystis aeruginosa | Algae      |
| 2-methylpropan-2-ol<br>CAS: 75-65-0<br>EC: 200-889-7 | LC50           | 961 mg/L (96 h)   | Pimephales promelas    | Fish       |
|  | EC50           | Non-applicable    |                        |            |
|  | EC50           | Non-applicable    |                        |            |

**12.2 Persistence and degradability:**

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**MediFresh Käsihuuhde Pro**

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

| Identification | Degradability                            |                | Biodegradability |               |
|----------------|--|----------------|------------------|---------------|
|                | ethanol<br>CAS: 64-17-5<br>EC: 200-578-6 | BOD5           | Non-applicable   | Concentration |
|                | COD                                      | Non-applicable | Period           | 14 days       |
|                | BOD5/COD                                 | Non-applicable | % Biodegradable  | 89 %          |

**12.3 Bioaccumulative potential:**

| Identification | Bioaccumulation potential                |       |
|----------------|--|-------|
|                | ethanol<br>CAS: 64-17-5<br>EC: 200-578-6 | BCF   |
|                | Pow Log                                  | -0.31 |
|                | Potential                                | Low   |

**12.4 Mobility in soil:**

| Identification                                       | Absorption/desorption                    |                      | Volatility |                |
|--|--|----------------------|------------|----------------|
|  | ethanol<br>CAS: 64-17-5<br>EC: 200-578-6 | Koc                  | 1          | Henry          |
|  | Conclusion                               | Very High            | Dry soil   | Yes            |
|  | Surface tension                          | 2,339E-2 N/m (25 °C) | Moist soil | Yes            |
| 2-methylpropan-2-ol<br>CAS: 75-65-0<br>EC: 200-889-7 | Koc                                      | Non-applicable       | Henry      | Non-applicable |
|  | Conclusion                               | Non-applicable       | Dry soil   | Non-applicable |
|  | Surface tension                          | 2,111E-2 N/m (25 °C) | Moist soil | Non-applicable |

**12.5 Results of PBT and vPvB assessment:**

Product fails to meet PBT/vPvB criteria

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code      | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|-------------|--|
| 20 01 19* | Pesticides  | Dangerous                                  |

**Type of waste (Regulation (EU) No 1357/2014):**

HP3 Flammable, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2019 and RID 2019:

**MediFresh Käsihuuhe Pro**

**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 **UN number:** UN1987
- 14.2 **UN proper shipping name:** ALCOHOLS, N.O.S. (ethanol)
- 14.3 **Transport hazard class(es):** 3  
Labels: 3
- 14.4 **Packing group:** II
- 14.5 **Environmental hazards:** No
- 14.6 **Special precautions for user**  
Special regulations: 274, 601, 640D  
Tunnel restriction code: D/E  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L
- 14.7 **Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 39-18:



- 14.1 **UN number:** UN1987
- 14.2 **UN proper shipping name:** ALCOHOLS, N.O.S. (ethanol)
- 14.3 **Transport hazard class(es):** 3  
Labels: 3
- 14.4 **Packing group:** II
- 14.5 **Marine pollutant:** No
- 14.6 **Special precautions for user**  
Special regulations: 274  
EmS Codes: F-E, S-D  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
Segregation group: Non-applicable
- 14.7 **Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2020:



- 14.1 **UN number:** UN1987
- 14.2 **UN proper shipping name:** ALCOHOLS, N.O.S. (ethanol)
- 14.3 **Transport hazard class(es):** 3  
Labels: 3
- 14.4 **Packing group:** II
- 14.5 **Environmental hazards:** No
- 14.6 **Special precautions for user**  
Physico-Chemical properties: see section 9
- 14.7 **Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**SECTION 15: REGULATORY INFORMATION**

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

Composition of the active ingredients (Regulation (EU) No 528/2012): ethanol (73.5%)  
 Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable  
 Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable  
 Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable  
 Article 95, REGULATION (EU) No 528/2012: ethanol (Product-type 1, 2, 4, 6)  
 REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable  
**Seveso III:**

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**MediFresh Käsihuuhe Pro**

**SECTION 15: REGULATORY INFORMATION (continued)**

| Section | Description       | Lower-tier requirements | Upper-tier requirements |
|---------|-------------------|-------------------------|-------------------------|
| P5c     | FLAMMABLE LIQUIDS | 5000                    | 50000                   |

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Non-applicable

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

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

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

· Precautionary statements

**Texts of the legislative phrases mentioned in section 2:**

H319: Causes serious eye irritation.

H225: Highly flammable liquid and vapour.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

Acute Tox. 4: H332 - Harmful if inhaled.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

STOT SE 3: H335 - May cause respiratory irritation.

**Classification procedure:**

Eye Irrit. 2: Calculation method

Flam. Liq. 2: Calculation method (2.6.4.3)

**Advice related to training:**

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

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## Safety data sheet

This SDS is an English translation of Regulation (EU) n° 2015/830, without any country-specific legislation

### MediFresh Käsihuuhde Pro

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -