# Yeti - Pineapple Ice (10mg/ml) - UFI: 2W19-Y021-500P-SJCC

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier:** Yeti - Pineapple Ice (10mg/ml) - UFI: 2W19-Y021-500P-SJCC

**Other means of identification:**

Non-applicable

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

Relevant uses: Liquid for electronic cigarettes

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:**

Rule13 Limited
Unit 1 Fountain Enterprise Park
ME15 6ZQ Maidstone - Kent - United Kingdom
Phone: 01622 851 436
science@rule13.co.uk
https://rule13.co.uk/

**1.4 Emergency telephone number:** +44 1622 851436

## 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.

Acute Tox. 3: Acute toxicity on contact with skin, Category 3, H311
Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
Eye Irrit. 2: Eye irritation, Category 2, H319

**2.2 Label elements:**

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

**Danger**

**Hazard statements:**

Acute Tox. 3: H311 - Toxic in contact with skin.
Acute Tox. 4: H302 - Harmful if swallowed.
Eye Irrit. 2: H319 - Causes serious eye irritation.

**Precautionary statements:**

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/face protection/protective clothing/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER/doctor if you feel unwell.
P501: Dispose of contents/container according to the separated collection system used in your municipality.

**Supplementary information:**

EUH208: Contains Hexanoic anhydride. May produce an allergic reaction.

**Substances that contribute to the classification**

Methyl diisopropyl propionamide; Allyl hexanoate; Nicotine salicylate; Allyl heptanoate

**UFI:** 2W19-Y021-500P-SJCC

**2.3 Other hazards:**

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## SECTION 2: HAZARDS IDENTIFICATION (continued)

Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.
Please note that the inclusion of this product in a mist-generating device (vapers, etc.) may raise its classification with respect to acute inhalation toxicity to a higher hazard category and additionally require the application of Article 12 of Regulation (EC) No 1272/2008.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Mixture based on chemical products for aroma formulation

**Components:**

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

| Identification | Chemical name/Classification | | Concentration |
|---|---|---|---|
| CAS: 56-81-5<br>EC: 200-289-5<br>Index: Non-applicable<br>REACH: Non-applicable | **Glycerin** [1] | Not classified | **25 - <50 %** |
| | Regulation 1272/2008 | | |
| CAS: 57-55-6<br>EC: 200-338-0<br>Index: Non-applicable<br>REACH: Non-applicable | **Propylene Glycol** [1] | Not classified | **25 - <50 %** |
| | Regulation 1272/2008 | | |
| CAS: 51115-67-4<br>EC: 256-974-4<br>Index: Non-applicable<br>REACH: Non-applicable | **Methyl diisopropyl propionamide** [2] | Self-classified | **3 - <5 %** |
| | Regulation 1272/2008 | Acute Tox. 4: H302 - Warning | |
| CAS: 105-54-4<br>EC: 203-306-4<br>Index: Non-applicable<br>REACH: 01-2120118576-54-XXXX | **Ethyl butyrate** [2] | Self-classified | **1 - <3 %** |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Flam. Liq. 3: H226 - Warning | |
| CAS: 123-68-2<br>EC: 204-642-4<br>Index: Non-applicable<br>REACH: 01-2119983573-26-XXXX | **Allyl hexanoate** [2] | Self-classified | **1 - <3 %** |
| | Regulation 1272/2008 | Acute Tox. 3: H301+H311+H331; Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Danger | |
| CAS: 50-21-5<br>EC: 200-018-0<br>Index: Non-applicable<br>REACH: 01-2119548400-48-XXXX | **Lactic acid** [2] | Self-classified | **1 - <3 %** |
| | Regulation 1272/2008 | Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger | |
| CAS: 29790-52-1<br>EC: 249-852-7<br>Index: Non-applicable<br>REACH: Non-applicable | **Nicotine salicylate** [2] | Self-classified | **1 - <3 %** |
| | Regulation 1272/2008 | Acute Tox. 1: H310; Acute Tox. 2: H300+H330; Aquatic Chronic 2: H411 - Danger | |
| CAS: 142-19-8<br>EC: 205-527-1<br>Index: Non-applicable<br>REACH: 01-2119488961-23-XXXX | **Allyl heptanoate** [2] | Self-classified | **0.1 - <1 %** |
| | Regulation 1272/2008 | Acute Tox. 3: H301+H311; Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Danger | |
| CAS: 110-43-0<br>EC: 203-767-1<br>Index: 606-024-00-3<br>REACH: 01-2119902391-49-XXXX | **heptan-2-one** [3] | ATP CLP00 | **<0.1 %** |
| | Regulation 1272/2008 | Acute Tox. 4: H302+H332; Flam. Liq. 3: H226 - Warning | |
| CAS: 2051-49-2<br>EC: 218-121-4<br>Index: Non-applicable<br>REACH: 01-2119999541-25-XXXX | **Hexanoic anhydride** [2] | Self-classified | **<0.1 %** |
| | Regulation 1272/2008 | Skin Sens. 1A: H317 - Warning | |
| CAS: 107-18-6<br>EC: 203-470-7<br>Index: 603-015-00-6<br>REACH: 01-2119452689-23-XXXX | **allyl alcohol** [3] | ATP CLP00 | **<0.1 %** |
| | Regulation 1272/2008 | Acute Tox. 3: H301+H311+H331; Aquatic Acute 1: H400; Eye Irrit. 2: H319; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger | |

[1] Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878
[2] Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878
[3] Substance with a Union workplace exposure limit

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

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

**Other information:**

| Identification | Specific concentration limit |
|---|---|
| Lactic acid<br>CAS: 50-21-5<br>EC: 200-018-0 | % (w/w) >=10: Skin Irrit. 2 - H315<br>% (w/w) >=3: Eye Dam. 1 - H318<br>1<= % (w/w) <3: Eye Irrit. 2 - H319 |

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification | Acute toxicity | | Genus |
|---|---|---|---|
| Methyl diisopropyl propionamide | LD50 oral | 500 mg/kg (ATEi) | |
| CAS: 51115-67-4 | LD50 dermal | Non-applicable | |
| EC: 256-974-4 | LC50 inhalation | Non-applicable | |
| Allyl hexanoate | LD50 oral | Non-applicable | |
| CAS: 123-68-2 | LD50 dermal | Non-applicable | |
| EC: 204-642-4 | LC50 inhalation | 3 mg/L (ATEi) | |
| Nicotine salicylate | LD50 oral | Non-applicable | |
| CAS: 29790-52-1 | LD50 dermal | Non-applicable | |
| EC: 249-852-7 | LC50 inhalation | 0.5 mg/L (ATEi) | |

## SECTION 4: FIRST AID MEASURES

**4.1 Description of first aid measures:**

Request medical assistance immediately, 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:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**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/aspiration:**

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

**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:**

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

- CONTINUED ON NEXT PAGE -

## SECTION 5: FIREFIGHTING MEASURES (continued)

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.

**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:**

**For non-emergency personnel:**

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 spilt 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. Remove 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.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

It is recommended to avoid environmental spillage of both the product and its container.

**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.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

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

| | |
|---|---|
| Minimum Temp.: | 5 ºC |
| Maximum Temp.: | 30 ºC |

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## SECTION 7: HANDLING AND STORAGE (continued)

Maximum time: 24 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:**

Substances whose occupational exposure limits have to be monitored in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

| Identification | Occupational exposure limits | | |
|---|---|---|---|
| Propylene Glycol<br>CAS: 57-55-6 EC: 200-338-0 | WEL (8h) | 150 ppm | 474 mg/m³ |
| | WEL (15 min) | | |
| ethanol<br>CAS: 64-17-5 EC: 200-578-6 | WEL (8h) | 1000 ppm | 1920 mg/m³ |
| | WEL (15 min) | | |
| heptan-2-one<br>CAS: 110-43-0 EC: 203-767-1 | WEL (8h) | 50 ppm | 237 mg/m³ |
| | WEL (15 min) | 100 ppm | 475 mg/m³ |
| allyl alcohol<br>CAS: 107-18-6 EC: 203-470-7 | WEL (8h) | 2 ppm | 4.8 mg/m³ |
| | WEL (15 min) | 4 ppm | 9.7 mg/m³ |
| Pentan-3-one<br>CAS: 96-22-0 EC: 202-490-3 | WEL (8h) | 200 ppm | 716 mg/m³ |
| | WEL (15 min) | 250 ppm | 895 mg/m³ |
| Glycerin<br>CAS: 56-81-5 EC: 200-289-5 | WEL (8h) | | 10 mg/m³ |
| | WEL (15 min) | | |

**DNEL (Workers):**

| Identification | | Short exposure | | Long exposure | |
|---|---|---|---|---|---|
| | | Systemic | Local | Systemic | Local |
| Glycerin | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 56-81-5 | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| EC: 200-289-5 | Inhalation | Non-applicable | Non-applicable | Non-applicable | 56 mg/m³ |
| Propylene Glycol | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 57-55-6 | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| EC: 200-338-0 | Inhalation | Non-applicable | Non-applicable | 168 mg/m³ | 10 mg/m³ |
| Ethyl butyrate | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 105-54-4 | Dermal | Non-applicable | Non-applicable | 2.33 mg/kg | Non-applicable |
| EC: 203-306-4 | Inhalation | Non-applicable | Non-applicable | 49.3 mg/m³ | Non-applicable |
| Allyl hexanoate | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 123-68-2 | Dermal | Non-applicable | Non-applicable | 4.3 mg/kg | Non-applicable |
| EC: 204-642-4 | Inhalation | Non-applicable | Non-applicable | 15 mg/m³ | Non-applicable |
| Lactic acid | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 50-21-5 | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| EC: 200-018-0 | Inhalation | Non-applicable | 592 mg/m³ | Non-applicable | 592 mg/m³ |
| Allyl heptanoate | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 142-19-8 | Dermal | Non-applicable | Non-applicable | 0.84 mg/kg | Non-applicable |
| EC: 205-527-1 | Inhalation | Non-applicable | Non-applicable | 2.97 mg/m³ | Non-applicable |
| heptan-2-one | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 110-43-0 | Dermal | Non-applicable | Non-applicable | 54.27 mg/kg | Non-applicable |
| EC: 203-767-1 | Inhalation | 1516 mg/m³ | Non-applicable | 394.25 mg/m³ | Non-applicable |
| allyl alcohol | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 107-18-6 | Dermal | 7.6 mg/kg | Non-applicable | 0.125 mg/kg | Non-applicable |
| EC: 203-470-7 | Inhalation | 12.1 mg/m³ | 12.1 mg/m³ | 4.63 mg/m³ | Non-applicable |

**DNEL (General population):**

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

| Identification | | Short exposure | | Long exposure | |
|---|---|---|---|---|---|
| | | Systemic | Local | Systemic | Local |
| Glycerin | Oral | Non-applicable | Non-applicable | 229 mg/kg | Non-applicable |
| CAS: 56-81-5 | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| EC: 200-289-5 | Inhalation | Non-applicable | Non-applicable | Non-applicable | 33 mg/m³ |
| Propylene Glycol | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 57-55-6 | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| EC: 200-338-0 | Inhalation | Non-applicable | Non-applicable | 50 mg/m³ | 10 mg/m³ |
| Ethyl butyrate | Oral | Non-applicable | Non-applicable | 0.833 mg/kg | Non-applicable |
| CAS: 105-54-4 | Dermal | Non-applicable | Non-applicable | 0.833 mg/kg | Non-applicable |
| EC: 203-306-4 | Inhalation | Non-applicable | Non-applicable | 7.4 mg/m³ | Non-applicable |
| Allyl hexanoate | Oral | Non-applicable | Non-applicable | 2.1 mg/kg | Non-applicable |
| CAS: 123-68-2 | Dermal | Non-applicable | Non-applicable | 2.1 mg/kg | Non-applicable |
| EC: 204-642-4 | Inhalation | Non-applicable | Non-applicable | 3.7 mg/m³ | Non-applicable |
| Lactic acid | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 50-21-5 | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| EC: 200-018-0 | Inhalation | Non-applicable | 296 mg/m³ | Non-applicable | Non-applicable |
| Allyl heptanoate | Oral | Non-applicable | Non-applicable | 0.42 mg/kg | Non-applicable |
| CAS: 142-19-8 | Dermal | Non-applicable | Non-applicable | 0.42 mg/kg | Non-applicable |
| EC: 205-527-1 | Inhalation | Non-applicable | Non-applicable | 0.73 mg/m³ | Non-applicable |
| heptan-2-one | Oral | Non-applicable | Non-applicable | 23.32 mg/kg | Non-applicable |
| CAS: 110-43-0 | Dermal | Non-applicable | Non-applicable | 23.32 mg/kg | Non-applicable |
| EC: 203-767-1 | Inhalation | Non-applicable | Non-applicable | 84.31 mg/m³ | Non-applicable |
| allyl alcohol | Oral | Non-applicable | Non-applicable | 0.075 mg/kg | Non-applicable |
| CAS: 107-18-6 | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| EC: 203-470-7 | Inhalation | Non-applicable | Non-applicable | Non-applicable | Non-applicable |

**PNEC:**

| Identification | | | | |
|---|---|---|---|---|
| Glycerin | STP | 1000 mg/L | Fresh water | 0.885 mg/L |
| CAS: 56-81-5 | Soil | 0.141 mg/kg | Marine water | 0.088 mg/L |
| EC: 200-289-5 | Intermittent | 8.85 mg/L | Sediment (Fresh water) | 3.3 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0.33 mg/kg |
| Propylene Glycol | STP | 20000 mg/L | Fresh water | 260 mg/L |
| CAS: 57-55-6 | Soil | 50 mg/kg | Marine water | 26 mg/L |
| EC: 200-338-0 | Intermittent | 183 mg/L | Sediment (Fresh water) | 572 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 57.2 mg/kg |
| Ethyl butyrate | STP | 23.6 mg/L | Fresh water | 0.0297 mg/L |
| CAS: 105-54-4 | Soil | 0.0171 mg/kg | Marine water | 0.00297 mg/L |
| EC: 203-306-4 | Intermittent | 1 mg/L | Sediment (Fresh water) | 0.173 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0.0173 mg/kg |
| Allyl hexanoate | STP | 10 mg/L | Fresh water | 0.000117 mg/L |
| CAS: 123-68-2 | Soil | 0.000825 mg/kg | Marine water | 0.000012 mg/L |
| EC: 204-642-4 | Intermittent | 0.00117 mg/L | Sediment (Fresh water) | 0.00446 mg/kg |
| | Oral | 0.04756 g/kg | Sediment (Marine water) | 0.000446 mg/kg |
| Allyl heptanoate | STP | 10 mg/L | Fresh water | 0.00012 mg/L |
| CAS: 142-19-8 | Soil | 0.002 mg/kg | Marine water | 0.000012 mg/L |
| EC: 205-527-1 | Intermittent | 0.0012 mg/L | Sediment (Fresh water) | 0.012 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0.001 mg/kg |
| heptan-2-one | STP | 12.5 mg/L | Fresh water | 0.098 mg/L |
| CAS: 110-43-0 | Soil | 0.321 mg/kg | Marine water | 0.01 mg/L |
| EC: 203-767-1 | Intermittent | 0.982 mg/L | Sediment (Fresh water) | 1.89 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0.189 mg/kg |

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

| Identification | | | | |
|---|---|---|---|---|
| Hexanoic anhydride | STP | 100 mg/L | Fresh water | 0.088 mg/L |
| CAS: 2051-49-2 | Soil | 1.5 mg/kg | Marine water | 0.0088 mg/L |
| EC: 218-121-4 | Intermittent | 0.888 mg/L | Sediment (Fresh water) | 7.77 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0.78 mg/kg |
| allyl alcohol | STP | 10 mg/L | Fresh water | 0.0032 mg/L |
| CAS: 107-18-6 | Soil | 0.00368 mg/kg | Marine water | 0.00032 mg/L |
| EC: 203-470-7 | Intermittent | 0.0032 mg/L | Sediment (Fresh water) | 0.0127 mg/kg |
| | Oral | 0.00033 g/kg | Sediment (Marine water) | 0.00127 mg/kg |

**8.2 Exposure controls:**

A.- Individual protection measures, such as personal protective equipment

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

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
| Mandatory hand protection | Chemical protective gloves (Material: Nitrile, Breakthrough time: > 156 min, Thickness: 0.4 mm) | CE CAT III | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
| Mandatory face protection | Face shield | CE CAT II | EN 166:2002<br>EN 167:2002<br>EN 168:2002<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
| Mandatory complete body protection | Disposable clothing for protection against chemical risks | CE CAT III | EN 13034:2005+A1:2009<br>EN 168:2002<br>EN ISO 13982-1:2004/A1:2010<br>EN ISO 6529:2013<br>EN ISO 6530:2005<br>EN 464:1994 | For professional use only. Clean periodically according to the manufacturer´s instructions. |
| Mandatory foot protection | Safety footwear for protection against chemical risk | CE CAT III | EN ISO 20345:2011<br>EN 13832-1:2019 | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

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

**Environmental exposure controls:**

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

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

**Volatile organic compounds:**

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

| | |
|---|---|
| V.O.C. (Supply): | 4.22 % weight |
| V.O.C. density at 20 ºC: | 47.92 kg/m³ (47.92 g/L) |
| Average carbon number: | 6.68 |
| Average molecular weight: | 127.67 g/mol |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

For complete information see the product datasheet.

**Appearance:**

| | |
|---|---|
| Physical state at 20 ºC: | Liquid |
| Appearance: | Colorless |
| Colour: | Not available |
| Odour: | Pleasant |
| Odour threshold: | Non-applicable * |

**Volatility:**

| | |
|---|---|
| Boiling point at atmospheric pressure: | 181 ºC |
| Vapour pressure at 20 ºC: | 248 Pa |
| Vapour pressure at 50 ºC: | 1290.9 Pa (1.29 kPa) |
| Evaporation rate at 20 ºC: | Non-applicable * |

**Product description:**

| | |
|---|---|
| Density at 20 ºC: | 1136.1 kg/m³ |
| Relative density at 20 ºC: | 1.136 |
| Dynamic viscosity at 20 ºC: | Non-applicable * |
| Kinematic viscosity at 20 ºC: | Non-applicable * |
| Kinematic viscosity at 40 ºC: | Non-applicable * |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 20 ºC: | Non-applicable * |
| Partition coefficient n-octanol/water 20 ºC: | Non-applicable * |
| Solubility in water at 20 ºC: | Non-applicable * |
| Solubility properties: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |

**Flammability:**

| | |
|---|---|
| Flash Point: | Non Flammable (>60 ºC) |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 260 ºC |
| Lower flammability limit: | Non-applicable * |
| Upper flammability limit: | Non-applicable * |

**Particle characteristics:**

| | |
|---|---|
| Median equivalent diameter: | Non-applicable |

**9.2 Other information:**

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

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

**Information with regard to physical hazard classes:**

| | |
|---|---|
| Explosive properties: | Non-applicable * |
| Oxidising properties: | Non-applicable * |
| Corrosive to metals: | Non-applicable * |
| Heat of combustion: | 16.16 kJ/g |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

**Other safety characteristics:**

| | |
|---|---|
| Surface tension at 20 ºC: | 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 indicated 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 | Precaution | Precaution | 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 ), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous 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 hazardous 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 hazardous for inhalation. For more information see section 3.

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

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Contact with the skin: Can be fatal if the product is absorbed through the skin. For more information on the secondary effects of skin contact see section 2.
- Contact with the eyes: Produces eye damage after contact.

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

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

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

| Identification | Acute toxicity | | Genus |
|---|---|---|---|
| Propylene Glycol | LD50 oral | 22000 mg/kg | Rat |
| CAS: 57-55-6 | LD50 dermal | >2000 mg/kg | Rabbit |
| EC: 200-338-0 | LC50 inhalation | >317 mg/L (168 h) | Rabbit |
| Methyl diisopropyl propionamide | LD50 oral | 500 mg/kg (ATEi) | |
| CAS: 51115-67-4 | LD50 dermal | >2000 mg/kg | |
| EC: 256-974-4 | LC50 inhalation | >5 mg/L | |
| Ethyl butyrate | LD50 oral | >2000 mg/kg | |
| CAS: 105-54-4 | LD50 dermal | >2000 mg/kg | |
| EC: 203-306-4 | LC50 inhalation | >20 mg/L | |
| Allyl hexanoate | LD50 oral | 220 mg/kg | |
| CAS: 123-68-2 | LD50 dermal | 300 mg/kg | |
| EC: 204-642-4 | LC50 inhalation | 3 mg/L (ATEi) | |
| Lactic acid | LD50 oral | 3543 mg/kg | Rat |
| CAS: 50-21-5 | LD50 dermal | >2000 mg/kg | |
| EC: 200-018-0 | LC50 inhalation | >20 mg/L | |
| Allyl heptanoate | LD50 oral | 218 mg/kg | Rat |
| CAS: 142-19-8 | LD50 dermal | 810 mg/kg | Rabbit |
| EC: 205-527-1 | LC50 inhalation | >20 mg/L | |
| Glycerin | LD50 oral | 27200 mg/kg | Rat |
| CAS: 56-81-5 | LD50 dermal | >2000 mg/kg | Guinean pig |
| EC: 200-289-5 | LC50 inhalation | >5.85 mg/L (6 h) | Rat |

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

| Identification | Acute toxicity | | Genus |
|---|---|---|---|
| Nicotine salicylate | LD50 oral | 5 mg/kg | |
| CAS: 29790-52-1 | LD50 dermal | 5 mg/kg | |
| EC: 249-852-7 | LC50 inhalation | 0.5 mg/L (ATEi) | |
| heptan-2-one | LD50 oral | 1600 mg/kg | Rat |
| CAS: 110-43-0 | LD50 dermal | >2000 mg/kg | |
| EC: 203-767-1 | LC50 inhalation | 11 mg/L (4 h) | Rat |
| Hexanoic anhydride | LD50 oral | >2000 mg/kg | |
| CAS: 2051-49-2 | LD50 dermal | >2000 mg/kg | |
| EC: 218-121-4 | LC50 inhalation | >20 mg/L | |
| allyl alcohol | LD50 oral | 105 mg/kg | Rat |
| CAS: 107-18-6 | LD50 dermal | 89 mg/kg | Rabbit |
| EC: 203-470-7 | LC50 inhalation | >20 mg/L | |

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Non-applicable

## SECTION 12: ECOLOGICAL INFORMATION

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

**12.1 Toxicity:**

**Acute toxicity:**

| Identification | Concentration | | Species | Genus |
|---|---|---|---|---|
| Propylene Glycol | LC50 | 51400 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 57-55-6 | EC50 | 10000 mg/L (24 h) | Daphnia magna | Crustacean |
| EC: 200-338-0 | EC50 | 19100 mg/L (336 h) | Selenastrum capricornutum | Algae |
| Ethyl butyrate | LC50 | 100 mg/L (96 h) | Danio rerio | Fish |
| CAS: 105-54-4 | EC50 | 116.6 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 203-306-4 | EC50 | 100 mg/L (72 h) | Desmodesmus subspicatus | Algae |
| Allyl hexanoate | LC50 | >0.1 - 1 mg/L (96 h) | | Fish |
| CAS: 123-68-2 | EC50 | >0.1 - 1 mg/L (48 h) | | Crustacean |
| EC: 204-642-4 | EC50 | >0.1 - 1 mg/L (72 h) | | Algae |
| Lactic acid | LC50 | 130 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| CAS: 50-21-5 | EC50 | 250 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 200-018-0 | EC50 | Non-applicable | | |
| Nicotine salicylate | LC50 | >1 - 10 mg/L (96 h) | | Fish |
| CAS: 29790-52-1 | EC50 | >1 - 10 mg/L (48 h) | | Crustacean |
| EC: 249-852-7 | EC50 | >1 - 10 mg/L (72 h) | | Algae |
| Allyl heptanoate | LC50 | 0.12 mg/L (96 h) | Danio rerio | Fish |
| CAS: 142-19-8 | EC50 | 0.89 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 205-527-1 | EC50 | 4.6 mg/L (72 h) | Desmodesmus subspicatus | Algae |
| heptan-2-one | LC50 | 131 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 110-43-0 | EC50 | Non-applicable | | |
| EC: 203-767-1 | EC50 | Non-applicable | | |
| Hexanoic anhydride | LC50 | Non-applicable | | |
| CAS: 2051-49-2 | EC50 | 110 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 218-121-4 | EC50 | 110 mg/L (72 h) | Desmodesmus subspicatus | Algae |
| allyl alcohol | LC50 | 0.32 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 107-18-6 | EC50 | 1.65 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 203-470-7 | EC50 | 5.38 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |

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## SECTION 12: ECOLOGICAL INFORMATION (continued)

**Chronic toxicity:**

| Identification | Concentration | | Species | Genus |
|---|---|---|---|---|
| Propylene Glycol | NOEC | Non-applicable | | |
| CAS: 57-55-6 EC: 200-338-0 | NOEC | 13020 mg/L | Ceriodaphnia sp. | Crustacean |
| Ethyl butyrate | NOEC | 1.483 mg/L | N/A | Fish |
| CAS: 105-54-4 EC: 203-306-4 | NOEC | 28.833 mg/L | Daphnia magna | Crustacean |
| allyl alcohol | NOEC | Non-applicable | | |
| CAS: 107-18-6 EC: 203-470-7 | NOEC | 0.919 mg/L | Daphnia magna | Crustacean |

**12.2 Persistence and degradability:**

**Substance-specific information:**

| Identification | Degradability | | Biodegradability | |
|---|---|---|---|---|
| Glycerin | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 56-81-5 | COD | Non-applicable | Period | 14 days |
| EC: 200-289-5 | BOD5/COD | Non-applicable | % Biodegradable | 63 % |
| Propylene Glycol | BOD5 | 1.08 g O2/g | Concentration | 100 mg/L |
| CAS: 57-55-6 | COD | 1.63 g O2/g | Period | 28 days |
| EC: 200-338-0 | BOD5/COD | 0.66 | % Biodegradable | 90 % |
| Ethyl butyrate | BOD5 | Non-applicable | Concentration | 4 mg/L |
| CAS: 105-54-4 | COD | Non-applicable | Period | 28 days |
| EC: 203-306-4 | BOD5/COD | Non-applicable | % Biodegradable | 76.5 % |
| Lactic acid | BOD5 | 0.45 g O2/g | Concentration | 4 mg/L |
| CAS: 50-21-5 | COD | 0.9 g O2/g | Period | 20 days |
| EC: 200-018-0 | BOD5/COD | 0.5 | % Biodegradable | 50 % |
| Allyl heptanoate | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 142-19-8 | COD | Non-applicable | Period | 28 days |
| EC: 205-527-1 | BOD5/COD | Non-applicable | % Biodegradable | 81 % |
| Hexanoic anhydride | BOD5 | Non-applicable | Concentration | 200 mg/L |
| CAS: 2051-49-2 | COD | Non-applicable | Period | 29 days |
| EC: 218-121-4 | BOD5/COD | Non-applicable | % Biodegradable | 76.5 % |
| allyl alcohol | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 107-18-6 | COD | Non-applicable | Period | 14 days |
| EC: 203-470-7 | BOD5/COD | Non-applicable | % Biodegradable | 86 % |

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

| Identification | Bioaccumulation potential | |
|---|---|---|
| Glycerin | BCF | 3 |
| CAS: 56-81-5 | Pow Log | -1.76 |
| EC: 200-289-5 | Potential | Low |
| Propylene Glycol | BCF | 1 |
| CAS: 57-55-6 | Pow Log | -0.92 |
| EC: 200-338-0 | Potential | Low |
| Ethyl butyrate | BCF | 8 |
| CAS: 105-54-4 | Pow Log | 1.35 |
| EC: 203-306-4 | Potential | Low |
| Allyl heptanoate | BCF | 473 |
| CAS: 142-19-8 | Pow Log | 2.99 |
| EC: 205-527-1 | Potential | High |
| heptan-2-one | BCF | 7 |
| CAS: 110-43-0 | Pow Log | 1.98 |
| EC: 203-767-1 | Potential | Low |

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## SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Bioaccumulation potential | |
|---|---|---|
| allyl alcohol | BCF | |
| CAS: 107-18-6 | Pow Log | 0.17 |
| EC: 203-470-7 | Potential | |

**12.4 Mobility in soil:**

| Identification | Absorption/desorption | | Volatility | |
|---|---|---|---|---|
| Glycerin | Koc | Non-applicable | Henry | Non-applicable |
| CAS: 56-81-5 | Conclusion | Non-applicable | Dry soil | Non-applicable |
| EC: 200-289-5 | Surface tension | 6.516E-2 N/m (25 ºC) | Moist soil | Non-applicable |
| Propylene Glycol | Koc | Non-applicable | Henry | Non-applicable |
| CAS: 57-55-6 | Conclusion | Non-applicable | Dry soil | Non-applicable |
| EC: 200-338-0 | Surface tension | 3.547E-2 N/m (25 ºC) | Moist soil | Non-applicable |
| Ethyl butyrate | Koc | 22181 | Henry | Non-applicable |
| CAS: 105-54-4 | Conclusion | Immobile | Dry soil | Non-applicable |
| EC: 203-306-4 | Surface tension | Non-applicable | Moist soil | Non-applicable |
| Lactic acid | Koc | 20.9 | Henry | 0E+0 Pa·m³/mol |
| CAS: 50-21-5 | Conclusion | Very High | Dry soil | No |
| EC: 200-018-0 | Surface tension | 3.882E-2 N/m (25 ºC) | Moist soil | No |
| Allyl heptanoate | Koc | 968.3 | Henry | 112 Pa·m³/mol |
| CAS: 142-19-8 | Conclusion | Low | Dry soil | Non-applicable |
| EC: 205-527-1 | Surface tension | Non-applicable | Moist soil | Non-applicable |
| heptan-2-one | Koc | 280 | Henry | 17.12 Pa·m³/mol |
| CAS: 110-43-0 | Conclusion | Moderate | Dry soil | Yes |
| EC: 203-767-1 | Surface tension | 2.612E-2 N/m (25 ºC) | Moist soil | Yes |
| Hexanoic anhydride | Koc | 847.2 | Henry | 3.49 Pa·m³/mol |
| CAS: 2051-49-2 | Conclusion | Low | Dry soil | Yes |
| EC: 218-121-4 | Surface tension | Non-applicable | Moist soil | Yes |

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

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods:**

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|---|---|---|
| | It is not possible to assign a specific code, as it depends on the intended use by the user | Dangerous |

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

HP6 Acute Toxicity

**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, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) 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. Waste should not be disposed of to drains. 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

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## SECTION 14: TRANSPORT INFORMATION

**Transport of dangerous goods by land:**

With regard to ADR 2023 and RID 2023:

| | | |
|---|---|---|
| **14.1** | **UN number or ID number:** | UN2810 |
| **14.2** | **UN proper shipping name:** | TOXIC LIQUID, ORGANIC, N.O.S. (Allyl hexanoate) |
| **14.3** | **Transport hazard class(es):** | 6.1 |
| | Labels: | 6.1 |
| **14.4** | **Packing group:** | III |
| **14.5** | **Environmental hazards:** | No |
| **14.6** | **Special precautions for user** | |
| | Special regulations: | 274, 614 |
| | Tunnel restriction code: | E |
| | Physico-Chemical properties: | see section 9 |
| | Limited quantities: | 5 L |
| **14.7** | **Maritime transport in bulk according to IMO instruments:** | Non-applicable |

**Transport of dangerous goods by sea:**

With regard to IMDG 40-20:

| | | |
|---|---|---|
| **14.1** | **UN number or ID number:** | UN2810 |
| **14.2** | **UN proper shipping name:** | TOXIC LIQUID, ORGANIC, N.O.S. (Allyl hexanoate) |
| **14.3** | **Transport hazard class(es):** | 6.1 |
| | Labels: | 6.1 |
| **14.4** | **Packing group:** | III |
| **14.5** | **Marine pollutant:** | No |
| **14.6** | **Special precautions for user** | |
| | Special regulations: | 274, 223 |
| | EmS Codes: | F-A, S-A |
| | Physico-Chemical properties: | see section 9 |
| | Limited quantities: | 5 L |
| | Segregation group: | Non-applicable |
| **14.7** | **Maritime transport in bulk according to IMO instruments:** | Non-applicable |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2023:

| | | |
|---|---|---|
| **14.1** | **UN number or ID number:** | UN2810 |
| **14.2** | **UN proper shipping name:** | TOXIC LIQUID, ORGANIC, N.O.S. (Allyl hexanoate) |
| **14.3** | **Transport hazard class(es):** | 6.1 |
| | Labels: | 6.1 |
| **14.4** | **Packing group:** | III |
| **14.5** | **Environmental hazards:** | No |
| **14.6** | **Special precautions for user** | |
| | Physico-Chemical properties: | see section 9 |
| **14.7** | **Maritime transport in bulk according to IMO instruments:** | Non-applicable |

## SECTION 15: REGULATORY INFORMATION

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

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: Lactic acid

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Seveso III:**

Non-applicable

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## SECTION 15: REGULATORY INFORMATION (continued)

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

Shall not be used in:
—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
—tricks and jokes,
—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.
Directive 2014/40/EU of the European Parliament and of the Council of 3 April 2014 on the approximation of the laws, regulations and administrative provisions of the Member States concerning the manufacture, presentation and sale of tobacco and related products and repealing Directive 2001/37/EC:
(a) unit packets of electronic cigarettes and refill containers include a leaflet with information on:
(i) instructions for use and storage of the product, including a reference that the product is not recommended for use by young people and non-smokers;
(ii) contra-indications;
(iii) warnings for specific risk groups;
(iv) possible adverse effects;
(v) addictiveness and toxicity; and
(vi) contact details of the manufacturer or importer and a legal or natural contact person within the Union;
(b) unit packets and any outside packaging of electronic cigarettes and refill containers:
(i) include a list of all ingredients contained in the product in descending order of the weight, and an indication of the nicotine content of the product and the delivery per dose, the batch number and a recommendation to keep the product out of reach of children;
(ii) without prejudice to point (i) of this point, do not include elements or features referred to in Article 13, with the exception of Article 13(1)(a) and (c) concerning information on the nicotine content and on flavourings; and
(iii) carry one of the following health warnings:
'This product contains nicotine which is a highly addictive substance. It is not recommended for use by non-smokers'.
or
'This product contains nicotine which is a highly addictive substance.'
Member States shall determine which of these health warnings is to be used;
(c) health warnings comply with the requirements specified in Article 12(2).

**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 Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits
The Waste Regulations 2011, 2011 No. 988
Directive 2014/40/EU of the European Parliament and of the Council of 3 April 2014 on the approximation of the laws, regulations and administrative provisions of the Member States concerning the manufacture, presentation and sale of tobacco and related products and repealing Directive 2001/37/EC

**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:**
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 (COMMISSION REGULATION (EU) 2020/878)

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

**Texts of the legislative phrases mentioned in section 2:**
H319: Causes serious eye irritation.
H311: Toxic in contact with skin.
H302: Harmful if swallowed.

**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

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## SECTION 16: OTHER INFORMATION (continued)

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

Acute Tox. 1: H310 - Fatal in contact with skin.
Acute Tox. 2: H300+H330 - Fatal if swallowed or if inhaled.
Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin.
Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.
Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT SE 3: H335 - May cause respiratory irritation.

**Classification procedure:**

Eye Irrit. 2: Calculation method
Acute Tox. 3: Calculation method
Acute Tox. 4: Calculation method

**Advice related to training:**

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: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

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 -