Yeti - Cola (20mg/ml) - UFI: 5WC4-308H-U00T-JY4D

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

1.1 Product identifier: Yeti - Cola (20mg/ml) - UFI: 5WC4-308H-U00T-JY4D

Other means of identification:

Not relevant

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, Category 3, H301+H311
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Flam. Liq. 2: Flammable liquids, Category 2, H225

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger

Hazard statements:

Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
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/sparks/open flames/hot surfaces. — No smoking.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/face protection/protective clothing/protective footwear.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.
P501: Dispose of contents/container according to the separated collection system used in your municipality.

Supplementary information:

EUH208: Contains Cinnamaldehyde, Limonene. May produce an allergic reaction.

Substances that contribute to the classification

Methyl diisopropyl propionamide; Nicotine salicylate

UFI: 5WC4-308H-U00T-JY4D

2.3 Other hazards:

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

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.

*** Changes with regards to the previous version*

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 EC: 200-289-5 Index: Non-applicable REACH: Non-applicable	**Glycerin**[1]	Not classified	**50 - <75 %**
	Regulation 1272/2008		
CAS: 57-55-6 EC: 200-338-0 Index: Non-applicable REACH: Non-applicable	**Propylene Glycol**[1]	Not classified	**25 - <50 %**
	Regulation 1272/2008		
CAS: 51115-67-4 EC: 256-974-4 Index: Non-applicable REACH: Non-applicable	**Methyl diisopropyl propionamide**[2]	Self-classified	**1 - <3 %**
	Regulation 1272/2008	Acute Tox. 4: H302 - Warning	
CAS: 29790-52-1 EC: 249-852-7 Index: Non-applicable 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: 138-86-3 EC: 205-341-0 Index: 601-029-00-7 REACH: Non-applicable	**Limonene**[2]	ATP ATP17	**0.1 - <1 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	
CAS: 104-55-2 EC: 203-213-9 Index: Non-applicable REACH: Non-applicable	**Cinnamaldehyde**[2]	Self-classified	**0.1 - <1 %**
	Regulation 1272/2008	Acute Tox. 4: H312; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH: 01-2119474016-42-XXXX	**Linalool**[1]	Self-classified	**<0.1 %**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	

[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

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

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	Not relevant	
EC: 256-974-4	LC50 inhalation	Not relevant	
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)	

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Acute toxicity		Genus
Cinnamaldehyde	LD50 oral	Not relevant	
CAS: 104-55-2	LD50 dermal	1260 mg/kg	Rabbit
EC: 203-213-9	LC50 inhalation	Not relevant	

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. Induce vomiting (ONLY IF PERSON IS CONSCIOUS!) and then ingest large quantities of liquid to dilute the toxin. 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:

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

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

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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. 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 / The Dangerous Substances and Explosive Atmospheres Regulations 2002, 2002 No. 2776). 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

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

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

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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		
ethanol CAS: 64-17-5 EC: 200-578-6	WEL (8h)	1000 ppm	1920 mg/m³
	WEL (15 min)		
Propylene Glycol CAS: 57-55-6 EC: 200-338-0	WEL (8h)	150 ppm	474 mg/m³
	WEL (15 min)		
Glycerin 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	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 56-81-5	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-289-5	Inhalation	Not relevant	Not relevant	Not relevant	56 mg/m³
Propylene Glycol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 57-55-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-338-0	Inhalation	Not relevant	Not relevant	168 mg/m³	10 mg/m³
Cinnamaldehyde	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 104-55-2	Dermal	Not relevant	Not relevant	1.75 mg/kg	Not relevant
EC: 203-213-9	Inhalation	Not relevant	Not relevant	6.11 mg/m³	Not relevant
Linalool	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 78-70-6	Dermal	Not relevant	Not relevant	3.5 mg/kg	Not relevant
EC: 201-134-4	Inhalation	Not relevant	Not relevant	24.58 mg/m³	Not relevant

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Glycerin	Oral	Not relevant	Not relevant	229 mg/kg	Not relevant
CAS: 56-81-5	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-289-5	Inhalation	Not relevant	Not relevant	Not relevant	33 mg/m³
Propylene Glycol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 57-55-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-338-0	Inhalation	Not relevant	Not relevant	50 mg/m³	10 mg/m³
Cinnamaldehyde	Oral	Not relevant	Not relevant	0.625 mg/kg	Not relevant
CAS: 104-55-2	Dermal	Not relevant	Not relevant	0.625 mg/kg	Not relevant
EC: 203-213-9	Inhalation	Not relevant	Not relevant	1.09 mg/m³	Not relevant
Linalool	Oral	Not relevant	Not relevant	2.49 mg/kg	Not relevant
CAS: 78-70-6	Dermal	Not relevant	Not relevant	1.25 mg/kg	Not relevant
EC: 201-134-4	Inhalation	Not relevant	Not relevant	4.33 mg/m³	Not relevant

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	Not relevant	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	Not relevant	Sediment (Marine water)	57.2 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Cinnamaldehyde	STP	7.1 mg/L	Fresh water	0.008 mg/L
CAS: 104-55-2	Soil	0.0156 mg/kg	Marine water	0.0008 mg/L
EC: 203-213-9	Intermittent	0.0321 mg/L	Sediment (Fresh water)	0.101 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.0101 mg/kg
Linalool	STP	10 mg/L	Fresh water	0.2 mg/L
CAS: 78-70-6	Soil	0.327 mg/kg	Marine water	0.02 mg/L
EC: 201-134-4	Intermittent	2 mg/L	Sediment (Fresh water)	2.22 mg/kg
	Oral	0.0078 g/kg	Sediment (Marine water)	0.222 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	NON-disposable chemical protective gloves	CE CAT III	EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN ISO 21420:2020	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

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 EN 167:2002 EN 168:2002 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, with antistatic and fireproof properties	CE CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 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, with antistatic and heat resistant properties	CE CAT III	EN ISO 13287:2020 EN ISO 20345:2011 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 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

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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):	3.87 % weight
V.O.C. density at 20 ºC:	44.6 kg/m³ (44.6 g/L)
Average carbon number:	4.05
Average molecular weight:	71.4 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:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	168 ºC
Vapour pressure at 20 ºC:	884 Pa
Vapour pressure at 50 ºC:	4228.98 Pa (4.23 kPa)
Evaporation rate at 20 ºC:	Not relevant *

Product description:

Density at 20 ºC:	1152 kg/m³
Relative density at 20 ºC:	1.152
Dynamic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 40 ºC:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 ºC:	Not relevant *
Partition coefficient n-octanol/water 20 ºC:	Not relevant *
Solubility in water at 20 ºC:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

Flammability:

Flash Point:	22 ºC
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	225 ºC
Lower flammability limit:	Not available
Upper flammability limit:	Not available

Particle characteristics:

*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)

Median equivalent diameter:	Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	16.36 kJ/g
Aerosols-total percentage (by mass) of flammable components:	Not relevant *

Other safety characteristics:

Surface tension at 20 ºC:	Not relevant *
Refraction index:	Not relevant *

*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 from Safety Data Sheet.

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	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_2), 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: Can be fatal if consumed. For more information see section 2.
- 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):

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

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

- 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: 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.

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); beta-Myrcene (2B); Eugenol (3)
- 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, as it does not contain substances classified as hazardous for this effect. 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:

Not relevant

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	
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	
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
Nicotine salicylate	LD50 oral	5 mg/kg (ATEi)	
CAS: 29790-52-1	LD50 dermal	5 mg/kg (ATEi)	
EC: 249-852-7	LC50 inhalation	0.5 mg/L (ATEi)	
Limonene	LD50 oral	>2000 mg/kg	
CAS: 138-86-3	LD50 dermal	>2000 mg/kg	
EC: 205-341-0	LC50 inhalation	>20 mg/L	

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Cinnamaldehyde	LD50 oral	2220 mg/kg	Rat
CAS: 104-55-2	LD50 dermal	1260 mg/kg	Rabbit
EC: 203-213-9	LC50 inhalation	68.88 mg/L (4 h)	Rat
Linalool	LD50 oral	3000 mg/kg	Rat
CAS: 78-70-6	LD50 dermal	5610 mg/kg	Rabbit
EC: 201-134-4	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

Not relevant

SECTION 12: ECOLOGICAL INFORMATION

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

Harmful to aquatic life with long lasting effects.

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
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
Limonene	LC50	38.5 mg/L (96 h)	Pimephales promelas	Fish
CAS: 138-86-3	EC50	0.7 mg/L (48 h)	Daphnia magna	Crustacean
EC: 205-341-0	EC50	1.6 mg/L (48 h)	Selenastrum capricornutum	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Propylene Glycol	NOEC	Not relevant		
CAS: 57-55-6 EC: 200-338-0	NOEC	13020 mg/L	Ceriodaphnia sp.	Crustacean
Cinnamaldehyde	NOEC	15.159 mg/L	N/A	Fish
CAS: 104-55-2 EC: 203-213-9	NOEC	Not relevant		

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Glycerin	BOD5	Not relevant	Concentration	100 mg/L
CAS: 56-81-5	COD	Not relevant	Period	14 days
EC: 200-289-5	BOD5/COD	Not relevant	% 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 %
Limonene	BOD5	Not relevant	Concentration	100 mg/L
CAS: 138-86-3	COD	Not relevant	Period	14 days
EC: 205-341-0	BOD5/COD	Not relevant	% Biodegradable	69 %
Linalool	BOD5	Not relevant	Concentration	100 mg/L
CAS: 78-70-6	COD	Not relevant	Period	28 days
EC: 201-134-4	BOD5/COD	Not relevant	% Biodegradable	90 %

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SECTION 12: ECOLOGICAL INFORMATION (continued)

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
Limonene	BCF	660
CAS: 138-86-3	Pow Log	4.57
EC: 205-341-0	Potential	High
Cinnamaldehyde	BCF	8
CAS: 104-55-2	Pow Log	1.9
EC: 203-213-9	Potential	Low
Linalool	BCF	
CAS: 78-70-6	Pow Log	2.97
EC: 201-134-4	Potential	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Glycerin	Koc	Not relevant	Henry	Not relevant
CAS: 56-81-5	Conclusion	Not relevant	Dry soil	Not relevant
EC: 200-289-5	Surface tension	6.516E-2 N/m (25 ºC)	Moist soil	Not relevant
Propylene Glycol	Koc	Not relevant	Henry	Not relevant
CAS: 57-55-6	Conclusion	Not relevant	Dry soil	Not relevant
EC: 200-338-0	Surface tension	3.547E-2 N/m (25 ºC)	Moist soil	Not relevant
Limonene	Koc	1300	Henry	3242.4 Pa·m³/mol
CAS: 138-86-3	Conclusion	Low	Dry soil	Yes
EC: 205-341-0	Surface tension	Not relevant	Moist soil	Yes
Cinnamaldehyde	Koc	37	Henry	3.546E-1 Pa·m³/mol
CAS: 104-55-2	Conclusion	Very High	Dry soil	Yes
EC: 203-213-9	Surface tension	Not relevant	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	Hazardous

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

HP14 Ecotoxic, HP3 Flammable, HP6 Acute Toxicity

Waste management (disposal and evaluation):

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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-hazardous 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

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:**	UN1992
14.2	**UN proper shipping name:**	FLAMMABLE LIQUID, TOXIC, N.O.S. (ethanol; Nicotine salicylate)
14.3	**Transport hazard class(es):**	3
	Labels:	3, 6.1
14.4	**Packing group:**	II
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Special regulations:	274
	Tunnel restriction code:	D/E
	Physico-Chemical properties:	see section 9
	Limited quantities:	1 L
14.7	**Maritime transport in bulk according to IMO instruments:**	Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

14.1	**UN number or ID number:**	UN1992
14.2	**UN proper shipping name:**	FLAMMABLE LIQUID, TOXIC, N.O.S. (ethanol; Nicotine salicylate)
14.3	**Transport hazard class(es):**	3
	Labels:	3, 6.1
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:	Not relevant
14.7	**Maritime transport in bulk according to IMO instructions:**	Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

14.1	**UN number or ID number:**	UN1992
14.2	**UN proper shipping name:**	FLAMMABLE LIQUID, TOXIC, N.O.S. (ethanol; Nicotine salicylate)
14.3	**Transport hazard class(es):**	3
	Labels:	3, 6.1
14.4	**Packing group:**	II
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:**	Not relevant

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SECTION 15: REGULATORY INFORMATION

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

- Article 95, REGULATION (EU) No 528/2012: *Cinnamaldehyde (104-55-2) - PT: (2)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

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 ….) :

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:

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SECTION 16: OTHER INFORMATION (continued)

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.:

COMMISSION REGULATION (EU) 2020/878
CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):
· Precautionary statements

Texts of the legislative phrases mentioned in section 2:

H412: Harmful to aquatic life with long lasting effects.
H301+H311: Toxic if swallowed or in contact with skin.
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. 1: H310 - Fatal in contact with skin.
Acute Tox. 2: H300+H330 - Fatal if swallowed or if inhaled.
Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H312 - Harmful in contact with skin.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Classification procedure:

Aquatic Chronic 3: Calculation method
Acute Tox. 3: Calculation method
Flam. Liq. 2: Calculation method (2.6.4.3)

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 -