Yeti - Banana Blast (10mg/ml) - UFI: C764-P0QA-N005-VEP4

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

1.1 Product identifier: Yeti - Banana Blast (10mg/ml) - UFI: C764-P0QA-N005-VEP4

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

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.

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.
P312: Call a POISON CENTER/doctor if you feel unwell.
P330: Rinse mouth.
P501: Dispose of contents/container according to the separated collection system used in your municipality.

Substances that contribute to the classification

Methyl diisopropyl propionamide; Nicotine salicylate

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2.3 Other hazards:

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:

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

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: 123-92-2 EC: 204-662-3 Index: 607-130-00-2 REACH: 01-2119548408-32-XXXX	**Isopentyl acetate** [3]	ATP CLP00	**0.1 - <1 %**
	Regulation 1272/2008	Flam. Liq. 3: H226; EUH066 - Warning	
CAS: 110-19-0 EC: 203-745-1 Index: 607-026-00-7 REACH: 01-2119488971-22-XXXX	**Isobutyl Acetate** [3]	ATP CLP00	**<0.1 %**
	Regulation 1272/2008	Flam. Liq. 2: H225; EUH066 - 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.

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	
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)	

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:

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SECTION 4: FIRST AID MEASURES (continued)

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for 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:

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.

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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

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		
ethanol CAS: 64-17-5 EC: 200-578-6	WEL (8h)	1000 ppm	1920 mg/m³
	WEL (15 min)		
Isobutyl Acetate CAS: 110-19-0 EC: 203-745-1	WEL (8h)	150 ppm	724 mg/m³
	WEL (15 min)	187 ppm	903 mg/m³
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	WEL (8h)	50 ppm	270 mg/m³
	WEL (15 min)	100 ppm	541 mg/m³
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	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
Isobutyl Acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 110-19-0	Dermal	10 mg/kg	Non-applicable	10 mg/kg	Non-applicable
EC: 203-745-1	Inhalation	600 mg/m³	600 mg/m³	300 mg/m³	300 mg/m³

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
Isobutyl Acetate	Oral	5 mg/kg	Non-applicable	5 mg/kg	Non-applicable
CAS: 110-19-0	Dermal	5 mg/kg	Non-applicable	5 mg/kg	Non-applicable
EC: 203-745-1	Inhalation	300 mg/m³	300 mg/m³	35.7 mg/m³	35.7 mg/m³

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
Isopentyl acetate	STP	30 mg/L	Fresh water	0.011 mg/L
CAS: 123-92-2	Soil	0.06 mg/kg	Marine water	0.001 mg/L
EC: 204-662-3	Intermittent	0.11 mg/L	Sediment (Fresh water)	0.335 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.034 mg/kg
Isobutyl Acetate	STP	200 mg/L	Fresh water	0.17 mg/L
CAS: 110-19-0	Soil	0.075 mg/kg	Marine water	0.017 mg/L
EC: 203-745-1	Intermittent	0.34 mg/L	Sediment (Fresh water)	0.877 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.088 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.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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 EN 168:2002 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 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 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:

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):	1.03 % weight
V.O.C. density at 20 ºC:	12.03 kg/m³ (12.03 g/L)
Average carbon number:	6.7
Average molecular weight:	124.25 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:	184 ºC
Vapour pressure at 20 ºC:	151 Pa
Vapour pressure at 50 ºC:	821 Pa (0.82 kPa)
Evaporation rate at 20 ºC:	Non-applicable *

Product description:

Density at 20 ºC:	1163.1 kg/m³
Relative density at 20 ºC:	1.163
Dynamic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 20 ºC:	Non-applicable *

*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)

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:	310 ºC
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Particle characteristics:	
Median equivalent diameter:	Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	16.74 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 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	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:

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SECTION 10: STABILITY AND REACTIVITY (continued)

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

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

Based on available data, the classification criteria are not met, 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. However, it does contain substances which are classified as dangerous due to repetitive exposure. 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:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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	
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)	
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
Isopentyl acetate	LD50 oral	7400 mg/kg	Rat
CAS: 123-92-2	LD50 dermal	>2000 mg/kg	
EC: 204-662-3	LC50 inhalation	>20 mg/L	
Isobutyl Acetate	LD50 oral	13413 mg/kg	Rat
CAS: 110-19-0	LD50 dermal	17400 mg/kg	Rabbit
EC: 203-745-1	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

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.

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
Isopentyl acetate	LC50	Non-applicable		
CAS: 123-92-2	EC50	42 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-662-3	EC50	Non-applicable		
Isobutyl Acetate	LC50	120 mg/L (48 h)	Leuciscus idus	Fish
CAS: 110-19-0	EC50	168 mg/L (24 h)	Daphnia magna	Crustacean
EC: 203-745-1	EC50	80 mg/L (8 h)	Scenedesmus quadricauda	Algae

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
Isobutyl Acetate	NOEC	Non-applicable		
CAS: 110-19-0 EC: 203-745-1	NOEC	23.2 mg/L	Daphnia magna	Crustacean

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SECTION 12: ECOLOGICAL INFORMATION (continued)

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 %
Isobutyl Acetate	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 110-19-0	COD	Non-applicable	Period	20 days
EC: 203-745-1	BOD5/COD	Non-applicable	% Biodegradable	81 %

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
Isopentyl acetate	BCF	10
CAS: 123-92-2	Pow Log	
EC: 204-662-3	Potential	Low
Isobutyl Acetate	BCF	10
CAS: 110-19-0	Pow Log	1.78
EC: 203-745-1	Potential	Low

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
Isopentyl acetate	Koc	70	Henry	59.78 Pa·m³/mol
CAS: 123-92-2	Conclusion	Very High	Dry soil	Non-applicable
EC: 204-662-3	Surface tension	2.388E-2 N/m (25 ºC)	Moist soil	Yes
Isobutyl Acetate	Koc	Non-applicable	Henry	Non-applicable
CAS: 110-19-0	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 203-745-1	Surface tension	2.297E-2 N/m (25 ºC)	Moist soil	Non-applicable

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:

- CONTINUED ON NEXT PAGE -

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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):

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-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:**	UN2810
14.2	**UN proper shipping name:**	TOXIC LIQUID, ORGANIC, N.O.S. (Nicotine salicylate)
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. (Nicotine salicylate)
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:

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SECTION 14: TRANSPORT INFORMATION (continued)

14.1	**UN number or ID number:**	UN2810
14.2	**UN proper shipping name:**	TOXIC LIQUID, ORGANIC, N.O.S. (Nicotine salicylate)
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: Non-applicable

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

Seveso III:

Non-applicable

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.

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SECTION 15: REGULATORY INFORMATION (continued)

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.:
COMMISSION REGULATION (EU) 2020/878

Texts of the legislative phrases mentioned in section 2:
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

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.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Flam. Liq. 3: H226 - Flammable liquid and vapour.

Classification procedure:
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 -