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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation:

Vuse Go Disposable Apple Sour 18mg/ml

Other means of identification:

Vuse Go Box 1000 Apple Sour 18mg/ml

Vuse Go 1000 Apple Sour 18mg/ml

Vuse Go Pen 1000 Apple Sour 18mg/ml

Vuse Pro Pod Apple Sour 18mg/ml

Vuse Pod Apple Sour 18mg/ml

Vuse Pods Apple Sour 18mg/ml

Vuse Go Reload 950 Apple Sour 18mg/ml

Vuse Go Reload Pen 950 Apple Sour 18mg/ml

Vuse Go Reload 1000 Apple Sour 18mg/ml

VUSE GO 700 Apple Sour 18mg/ml

VUSE GO 1000 GREEN APPLE 18mg/ml

NV23-MOD-2386

UFI:

E62S-ADTD-DM1X-SJSC

1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture:

E-liquids for electronic cigarettes

1.3. Details of the supplier of the safety data sheet

Supplier:

TDR d.o.o

Obala Vladimira Nazora 1

52210 Rovinj

Croatia

Telephone: +385 052 844 000 **E-mail:** sds-eliquid@bat.com

Supplier:

Nicoventures Trading Ltd

1 Water Street WC2R 3LA London United Kingdom

Telephone: +44 (0)207 845 1000 **E-mail:** sds-eliquid@bat.com **Website:** www.nicoventures.co.uk

1.4. Emergency telephone number

24h: +44 1235 239670; UK Poison Centre NPIS: 0344-8920111 (medical professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

	<u>, </u>	
Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (Acute Tox. 4)	H302: Harmful if swallowed.	Calculation method.
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:



GHS07 Exclamation mark Signal word: Warning

Hazard components for labelling:

benzyl alcohol; nicotine; hexanal; Hexenal (2-)

Hazard statements for health hazards	
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

Precautionary statements		
P101 If medical advice is needed, have product container or label at hand.		
P102	Keep out of reach of children.	

Precautionary statements Prevention		
P264	Wash hands thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

Precautionary statements Response		
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
P302 + P352	IF ON SKIN: Wash with plenty of water.	
P330	Rinse mouth.	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.	

Precautionary statements Disposal	
P501	Dispose of used device in accordance with local, regional or national regulations.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 100-51-6 EC No.: 202-859-9 REACH No.: 01-2119492630-38-0000	benzyl alcohol Acute Tox. 4 (H302, H332), Eye Irrit. 2 (H319), Skin Sens. 1 (H317) Warning Acute Toxicity Estimate ATE (oral) 1,620 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) 4.18 mg/L	1 - < 3.5 weight-%
CAS No.: 54-11-5 EC No.: 200-193-3 Index No.: 614-001-00-4 REACH No.: 01-2120066934-47-0000	nicotine Acute Tox. 2 (H330, H310, H300), Aquatic Chronic 2 (H411) Danger Acute Toxicity Estimate ATE (oral) 5 mg/kg ATE (dermal) 70 mg/kg ATE (inhalation, dust/mist) 0.19 mg/L	0 - ≤ 1.64 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 123-92-2 EC No.: 204-662-3 REACH No.: 01-2119548408-32-0000	isopentyl acetate Flam. Liq. 3 (H226)	0 - ≤ 0.8 weight-%
CAS No.: 66-25-1 EC No.: 200-624-5	hexanal Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) V: Warning	0 - < 0.3 weight-%
CAS No.: 141-78-6 EC No.: 205-500-4 REACH No.: 01-2119475103-46-0000	ethyl acetate Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) 1 Danger Acute Toxicity Estimate ATE (oral) = 5,620 mg/kg ATE (dermal) > 18,000 mg/kg ATE (inhalation, vapour) > 22.5 mg/L	0 - < 0.2 weight-%
CAS No.: 6728-26-3 EC No.: 229-778-1 REACH No.: 01-2120770494-48-0000	Hexenal (2-) Acute Tox. 3 (H311), Acute Tox. 4 (H302), Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1A (H317) Danger Acute Toxicity Estimate ATE (oral) 780 mg/kg ATE (dermal) 600 mg/kg	0 - < 0.2 weight-%
CAS No.: 123-86-4 EC No.: 204-658-1 Index No.: 607-025-00-1 REACH No.: 01-2119485493-29-0000	n-butyl acetate Flam. Liq. 3 (H226), STOT SE 3 (H336) The state of th	0 - < 0.2 weight-%
CAS No.: 64-19-7 EC No.: 200-580-7 Index No.: 607-002-00-6 REACH No.: 01-2119475328-30-0000	acetic acid Eye Dam. 1 (H318), Flam. Liq. 3 (H226), Skin Corr. 1A (H314) ② Danger Specific concentration limit (SCL) Skin Corr. 1A; H314: $C \ge 90\%$ Skin Corr. 1B; H314: $25\% \le C < 90\%$ Skin Irrit. 2; H315: $10\% \le C < 25\%$ Eye Irrit. 2; H319: $10\% \le C < 25\%$ Eye Dam. 1; H318: $C \ge 25\%$ Acute Toxicity Estimate ATE (oral) 3,310 mg/kg ATE (inhalation, vapour) > 8.5 mg/L	0 - ≤ 0.02 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/ attention.

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After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

Self-protection of the first aider:

Wear personal protection equipment (refer to section 8). No direct artificial respiration to be given by first

4.2. Most important symptoms and effects, both acute and delayed

Allergic reactions.

If exposed to large quantities of the product, acute nicotine poisoning might occur causing symptoms such as nausea, excess salivation, abdominal pain, diarrhoea, sweating, headache, dizziness, disturbed hearing and weakness. In extreme cases, these symptoms may be followed by depression of the central nervous system, including confusion, hypotension, rapid or weak or irregular pulse, breathing difficulties, prostration, circulatory collapse and terminal convulsions.

If the product is heated to temperatures above 130°C, decomposition products including formaldehyde and other carbonyls may form. Exposure to these substances may cause irritation of the eyes, nose, and the throat, stuffy or runny nose, headache, sore throat, tightness in the chest, skin rash, difficulty in breathing, wheezing and/or frequent and severe asthma attacks. In severe cases hypotension, arrhythmia, irregular breathing and loss of consciousness might occur.

4.3. Indication of any immediate medical attention and special treatment needed

ONLY FOR MEDICAL PERSONNEL: In case of severe nicotine poisoning, if airway is secured, administration of activated charcoal should be considered. Do NOT administer antacids; alkaline conditions improve the absorption of nicotine. Monitor breathing patterns and maintain circulation. Cholinergic symptoms may be treated with atropine.

ONLY FOR MEDICAL PERSONNEL: In case of severe formaldehyde poisoning (see above for special circustances in which this might arise through product degradation at high temperature) remove clothing and wash with plenty of water. Formaldehyde in solution is corrosive and as a gas is irritating and highly reactive. Eyes should be irrigated with normal saline or equivalent crystalloid, ideally under cover of local anaesthetic. The presence of formaldehyde in the body can be detected with the help of a patch test. As poisoning can lead to life-threatening complications, it is important to seek medical attention immediately if this is suspected.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam, Water mist

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

When hot, product develops flammable vapours. The vapour is heavier than air and may travel along the ground; distant ignition possible.

Hazardous combustion products:

In case of fire: Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx), Formaldehyde

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Do not enter storage, handling and production areas if unauthorized.

Protective equipment:

Wear protective gloves and eye protection/face protection.

Emergency procedures:

Do not walk on the spillage and avoid any kind of contact. Ventilate affected area if safe to do so. Evacuate the danger area immediately and follow the emergency procedures of your workplace.

6.1.2. For emergency responders

Personal protection equipment:

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Cover drains.

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13 Decomposition products in case of fire: see section 5.

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Use only in well-ventilated areas. Do not use above following temperatures: 50 °C / 122 °F. Wear personal protection equipment (refer to section 8). It is recommended to design all work processes always so that the following is excluded: Strong acid, Highly oxidising substances

Fire prevent measures:

When hot, product develops flammable vapours. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Advices on general occupational hygiene

Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Keep away from: Heat, UV-radiation/sunlight. Do not store at temperatures above 50 °C / 122 °F. Keep locked up and out of reach of children.

Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area. Flammable vapours can accumulate in steam space of closed systems. Take precautionary measures against static discharges.

Hints on storage assembly:

Keep away from: Strong acid, Highly oxidising substances

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Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

	Substance name	Long-term occupational exposure limit value Short-term occupational exposure limit value Instantaneous value Monitoring and observation processes
WEL (GB)	propane-1,2-diol CAS No.: 57-55-6	 \$ Remark 10 mg/m³ (particulates)
WEL (GB)	EC No.: 200-338-0 propane-1,2-diol CAS No.: 57-55-6 EC No.: 200-338-0	① 150 ppm (474 mg/m³) ⑤ (total dust)
WEL (GB)	glycerol CAS No.: 56-81-5 EC No.: 200-289-5	① 10 mg/m³
WEL (GB)	nicotine CAS No.: 54-11-5 EC No.: 200-193-3	① 0.5 mg/m³ ② 1.5 mg/m³ ⑤ (May be absorbed through the skin.)
IOELV (EU)	nicotine CAS No.: 54-11-5 EC No.: 200-193-3	① 0.5 mg/m³ ⑤ (May be absorbed through the skin.)
IOELV (EU)	isopentyl acetate CAS No.: 123-92-2 EC No.: 204-662-3	① 50 ppm (270 mg/m³) ② 100 ppm (540 mg/m³)
WEL (GB) from 21 Aug 2018	isopentyl acetate CAS No.: 123-92-2 EC No.: 204-662-3	① 50 ppm (270 mg/m³) ② 100 ppm (541 mg/m³)
WEL (GB) from 21 Aug 2018	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	① 200 ppm (734 mg/m³) ② 400 ppm (1,468 mg/m³)
IOELV (EU) from 21 Feb 2017	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	① 200 ppm (734 mg/m³) ② 400 ppm (1,468 mg/m³)
IOELV (EU) from 20 Nov 2019	n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m³) ② 150 ppm (723 mg/m³)
IOELV (EU) from 21 Feb 2017	acetic acid CAS No.: 64-19-7 EC No.: 200-580-7	① 10 ppm (25 mg/m³) ② 20 ppm (50 mg/m³)
WEL (GB) from 21 Aug 2018	acetic acid CAS No.: 64-19-7 EC No.: 200-580-7	① 10 ppm (25 mg/m³) ② 20 ppm (50 mg/m³)

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type
		② Exposure route
benzyl alcohol CAS No.: 100-51-6	22 mg/m³	① DNEL worker
EC No.: 202-859-9		② Long-term – inhalation, systemic effects
benzyl alcohol	5.4 mg/m ³	① DNEL Consumer
CAS No.: 100-51-6 EC No.: 202-859-9		② Long-term – inhalation, systemic effects
benzyl alcohol	110 mg/m³	① DNEL worker
CAS No.: 100-51-6 EC No.: 202-859-9		② Acute - inhalation, systemic effects
benzyl alcohol	27 mg/m³	① DNEL Consumer
CAS No.: 100-51-6 EC No.: 202-859-9		② Acute - inhalation, systemic effects
benzyl alcohol	8 mg/kg bw/	① DNEL worker
CAS No.: 100-51-6 EC No.: 202-859-9	day	② Long-term - dermal, systemic effects
benzyl alcohol	40 mg/kg bw/	① DNEL worker
CAS No.: 100-51-6 EC No.: 202-859-9	day	② Acute – dermal, systemic effects
nicotine	0.0313 mg/m ³	① DNEL worker
CAS No.: 54-11-5 EC No.: 200-193-3		② Long-term – inhalation, systemic effects
nicotine	8.6 mg/m ³	① DNEL worker
CAS No.: 54-11-5 EC No.: 200-193-3		② Acute - inhalation, systemic effects
nicotine	0.0443 mg/kg	① DNEL worker
CAS No.: 54-11-5 EC No.: 200-193-3	bw/day	② Long-term - dermal, systemic effects
nicotine	0.84 mg/kg	① DNEL worker
CAS No.: 54-11-5 EC No.: 200-193-3	bw/day	② Acute – dermal, systemic effects
nicotine	0.2 mg/cm ²	① DNEL worker
CAS No.: 54-11-5 EC No.: 200-193-3		② Acute - dermal, local effects
cis-hex-3-en-1-ol CAS No.: 928-96-1	11.75 mg/m ³	① DNEL worker
EC No.: 213-192-8		② Long-term – inhalation, systemic effects
cis-hex-3-en-1-ol	3.33 mg/kg	① DNEL worker
CAS No.: 928-96-1 EC No.: 213-192-8	bw/day	② Long-term - dermal, systemic effects
ethyl maltol	58.7 mg/m ³	① DNEL worker
CAS No.: 4940-11-8 EC No.: 225-582-5		② Long-term – inhalation, systemic effects
ethyl maltol	16.7 mg/kg	① DNEL worker
CAS No.: 4940-11-8 EC No.: 225-582-5	bw/day	② Long-term - dermal, systemic effects
ethyl butyrate	49.3 mg/m³	① DNEL worker
CAS No.: 105-54-4 EC No.: 203-306-4		② Long-term – inhalation, systemic effects
ethyl butyrate	2.33 mg/kg	① DNEL worker
CAS No.: 105-54-4 EC No.: 203-306-4	bw/day	② Long-term - dermal, systemic effects
hexanal	16.46 mg/m ³	① DNEL worker
CAS No.: 66-25-1 EC No.: 200-624-5		② Long-term – inhalation, systemic effects
hexanal	4.67 mg/kg	① DNEL worker
CAS No.: 66-25-1 EC No.: 200-624-5	bw/day	② Long-term - dermal, systemic effects
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Substance name	DNEL value	① DNEL type
		② Exposure route
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	132 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	10 mg/cm ²	DNEL worker Long-term – inhalation, local effects
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	10 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	19 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL worker ② Long-term – inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1,468 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	DNEL worker Long-term - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1,468 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	63 mg/kg bw/ day	DNEL worker Acute – dermal, systemic effects
D-limonene CAS No.: 5989-27-5 EC No.: 227-813-5	66.7 mg/m ³	① DNEL worker ② Long-term – inhalation, systemic effects
D-limonene CAS No.: 5989-27-5 EC No.: 227-813-5	9.5 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
acetic acid CAS No.: 64-19-7 EC No.: 200-580-7	25 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
acetic acid CAS No.: 64-19-7 EC No.: 200-580-7	25 mg/m³	① DNEL worker ② Acute - inhalation, local effects
eucalyptol CAS No.: 470-82-6 EC No.: 207-431-5	7.05 mg/m ³	① DNEL worker ② Long-term – inhalation, systemic effects
eucalyptol CAS No.: 470-82-6 EC No.: 207-431-5	2 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	161.6 mg/m ³	① DNEL worker ② Long-term – inhalation, systemic effects
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	12.5 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	11.8 mg/cm ²	① DNEL worker ② Long-term - dermal, local effects
Substance name	PNEC Value	① PNEC type
benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9	1 mg/L	① PNEC aquatic, freshwater
benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9	0.1 mg/L	① PNEC aquatic, marine water
benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9	39 mg/L	① PNEC sewage treatment plant
benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9	5.27 mg/kg	① PNEC sediment, freshwater
benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9	0.527 mg/kg	① PNEC sediment, marine water
benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9	0.456 mg/kg	① PNEC soil, freshwater
nicotine CAS No.: 54-11-5 EC No.: 200-193-3	0.0004 mg/L	① PNEC aquatic, freshwater
nicotine CAS No.: 54-11-5 EC No.: 200-193-3	0.00004 mg/L	① PNEC aquatic, marine water
nicotine CAS No.: 54-11-5 EC No.: 200-193-3	2.7 mg/L	① PNEC sewage treatment plant
nicotine CAS No.: 54-11-5 EC No.: 200-193-3	0.00065 mg/ kg	① PNEC sediment, freshwater
nicotine CAS No.: 54-11-5 EC No.: 200-193-3	0.000065 mg/ kg	① PNEC sediment, marine water
nicotine CAS No.: 54-11-5 EC No.: 200-193-3	0.000321 mg/ kg	① PNEC soil, freshwater
ethyl maltol CAS No.: 4940-11-8 EC No.: 225-582-5	7.2 μg/L	① PNEC aquatic, freshwater
ethyl maltol CAS No.: 4940-11-8 EC No.: 225-582-5	0.72 μg/L	① PNEC aquatic, marine water
ethyl maltol CAS No.: 4940-11-8 EC No.: 225-582-5	1.55 mg/L	① PNEC sewage treatment plant
ethyl maltol CAS No.: 4940-11-8 EC No.: 225-582-5	0.27 mg/kg	① PNEC sediment, freshwater
ethyl maltol CAS No.: 4940-11-8 EC No.: 225-582-5	0.027 mg/kg	① PNEC sediment, marine water
ethyl maltol CAS No.: 4940-11-8 EC No.: 225-582-5	0.049 mg/kg	① PNEC soil, freshwater
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Substance name	PNEC Value	① PNEC type
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	15.6 μg/L	① PNEC aquatic, freshwater
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	1.56 μg/L	① PNEC aquatic, marine water
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	2.37 mg/L	① PNEC sewage treatment plant
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	0.289 mg/kg	① PNEC sediment, freshwater
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	0.0289 mg/kg	① PNEC sediment, marine water
L-menthol CAS No.: 2216-51-5 EC No.: 218-690-9	0.0484 mg/kg	① PNEC soil, freshwater
D-limonene CAS No.: 5989-27-5 EC No.: 227-813-5	14 μg/L	① PNEC aquatic, freshwater
D-limonene CAS No.: 5989-27-5 EC No.: 227-813-5	1.4 μg/L	① PNEC aquatic, marine water
D-limonene CAS No.: 5989-27-5 EC No.: 227-813-5	1.8 mg/L	① PNEC sewage treatment plant
D-limonene CAS No.: 5989-27-5 EC No.: 227-813-5	3.85 mg/kg	① PNEC sediment, freshwater
D-limonene CAS No.: 5989-27-5 EC No.: 227-813-5	0.385 mg/kg	① PNEC sediment, marine water
D-limonene CAS No.: 5989-27-5 EC No.: 227-813-5	133 mg/kg	① PNEC secondary poisoning
D-limonene CAS No.: 5989-27-5 EC No.: 227-813-5	0.763 mg/kg	① PNEC soil, freshwater
Lime (Citrus aurantifolia), ext. CAS No.: 90063-52-8 EC No.: 290-010-3	5.4 μg/L	① PNEC aquatic, freshwater
Lime (Citrus aurantifolia), ext. CAS No.: 90063-52-8 EC No.: 290-010-3	0.54 μg/L	① PNEC aquatic, marine water
Lime (Citrus aurantifolia), ext. CAS No.: 90063-52-8 EC No.: 290-010-3	2.1 mg/L	① PNEC sewage treatment plant
Lime (Citrus aurantifolia), ext. CAS No.: 90063-52-8 EC No.: 290-010-3	1.3 mg/kg	① PNEC sediment, freshwater
Lime (Citrus aurantifolia), ext. CAS No.: 90063-52-8 EC No.: 290-010-3	0.13 mg/kg	① PNEC sediment, marine water
Lime (Citrus aurantifolia), ext. CAS No.: 90063-52-8 EC No.: 290-010-3	44.44 mg/kg	① PNEC secondary poisoning
Lime (Citrus aurantifolia), ext. CAS No.: 90063-52-8 EC No.: 290-010-3	0.29 mg/kg	① PNEC soil, freshwater

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Substance name	PNEC Value	① PNEC type
eucalyptol CAS No.: 470-82-6 EC No.: 207-431-5	57 μg/L	① PNEC aquatic, freshwater
eucalyptol CAS No.: 470-82-6 EC No.: 207-431-5	5.7 μg/L	① PNEC aquatic, marine water
eucalyptol CAS No.: 470-82-6 EC No.: 207-431-5	10 mg/L	① PNEC sewage treatment plant
eucalyptol CAS No.: 470-82-6 EC No.: 207-431-5	1.425 mg/kg	① PNEC sediment, freshwater
eucalyptol CAS No.: 470-82-6 EC No.: 207-431-5	0.142 mg/kg	① PNEC sediment, marine water
eucalyptol CAS No.: 470-82-6 EC No.: 207-431-5	40 mg/kg	① PNEC secondary poisoning
eucalyptol CAS No.: 470-82-6 EC No.: 207-431-5	0.25 mg/kg	① PNEC soil, freshwater
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	0.011 mg/L	① PNEC aquatic, freshwater
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	0.001 mg/L	① PNEC aquatic, marine water
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	0.7 mg/L	① PNEC sewage treatment plant
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	0.115 mg/kg	① PNEC sediment, freshwater
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	0.011 mg/kg	① PNEC sediment, marine water
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	0.017 mg/kg	① PNEC soil, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Reduce exposure to fume by keeping operating temperatures as low as possible taking into account occupational exposure limits and safe handling temperatures (see Section 7). Where practicable handle within an enclosed process. Alternatively local exhaust ventilation should be considered.

8.2.2. Personal protection equipment





Eye/face protection:

Eye glasses with side protection EN 166.

Skin protection:

Tested protective gloves must be worn (EN ISO 374). Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber). In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

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Respiratory protection:

Usually no personal respirative protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Full-/half-/quarter-face masks (EN 136/140) Filter type: A

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid Colour: light yellow

Odour: fruity

Safety relevant basis data

Parameter	Value	① Method	
		② Remark	
рН	4.8	② in aqueous solution: 10%	
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	50.8 °C		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	1.1109 g/mL		
Bulk density	not applicable		
Water solubility	No data available		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		
UN Test L.2: Sustained combustibility test	≥ 75 °C	② Not sustaining combustion.	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature. Exposure to UV/sunlight, air or heat might cause discoloration of the product.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.

10.5. Incompatible materials

Strong acid, Highly oxidising substances.

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10.6. Hazardous decomposition products

If the product is heated to temperatures above 130°C, decomposition products including formaldehyde and other carbonyls may form.

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9

LD₅₀ oral: 1,620 mg/kg (Rat) **LD₅₀ dermal:** >2,000 mg/kg

LC₅₀ Acute inhalation toxicity (dust/mist): 4.18 mg/L 4 h (Rat)

nicotine CAS No.: 54-11-5 EC No.: 200-193-3

ATE (oral)¹: 5 mg/kg
ATE (dermal)¹: 70 mg/kg

ATE (inhalation, dust/mist)1: 0.19 mg/L

 LD_{50} oral: =5 mg/kg (Rat)

LD₅₀ dermal: =70 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (dust/mist): =0.19 mg/L (Rat)

isopentyl acetate CAS No.: 123-92-2 EC No.: 204-662-3

LD₅₀ oral: =16,600 mg/kg (Rat) **LD₅₀ dermal:** >5,000 mg/kg (Rabbit)

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

LD₅₀ oral: =5,620 mg/kg (Rat)

LD₅₀ dermal: >18,000 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (vapour): >22.5 mg/L (Rat)

Hexenal (2-) CAS No.: 6728-26-3 EC No.: 229-778-1

LD₅₀ oral: 780 mg/kg (Rat) LD₅₀ dermal: 600 mg/kg (Rabbit)

acetic acid CAS No.: 64-19-7 EC No.: 200-580-7

LD₅₀ oral: 3,310 mg/kg (Rat)

LC₅₀ Acute inhalation toxicity (vapour): >8.5 mg/L 4 h (Rat)

Acute oral toxicity:

Harmful if swallowed.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

^{1:} Acute Toxicity Estimate. Harmonised (legal) classification.

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STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9

LC₅₀: 460 mg/L 4 d (fish, Pimephales promelas (fathead minnow))

LC₅₀: 230 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202

NOEC: 48.897 mg/L QSAR

NOEC: 51 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211

NOEC: 310 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201

ErC₅₀: 770 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201

nicotine CAS No.: 54-11-5 EC No.: 200-193-3

LC₅₀: ≥3 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) OECD 203

EC₅₀: =0.24 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

EC₅₀: =11 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

NOEC: =3.2 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

LC₅₀: 4 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))

EC₅₀: 11 mg/L 3 d (Algae/water plant)

isopentyl acetate CAS No.: 123-92-2 EC No.: 204-662-3

LC₅₀: >22 - <46 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203

EC₅₀: 42 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) DIN 38412 / part 11

NOEC: ≥100 mg/L 2 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

ErC₅₀: >100 mg/L 2 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

 LC_{50} : =212 mg/L 4 d

LC₅₀: =154 mg/L 2 d

EC₅₀: =2,500 mg/L 4 d

NOEC: =6.9 mg/L

NOEC: =2.4 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211

NOEC: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

Hexenal (2-) CAS No.: 6728-26-3 EC No.: 229-778-1

LC₅₀: 22.8 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) QSAR

EC₅₀: 8.16 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) QSAR

acetic acid CAS No.: 64-19-7 EC No.: 200-580-7

LC₅₀: >300.82 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) OECD 203

LC₅₀: >300.82 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202

EC₅₀: >300.82 mg/L 3 d (Algae/water plant, Skeletonema costatum)

NOEC: 22.7 mg/L 21 d (fish, Oncorhynchus mykiss (Rainbow trout)) OECD 204

NOEC: 22.7 mg/L 21 d (crustaceans, Daphnia magna (Big water flea) OECD 202)

NOEC: 300.82 mg/L 3 d (Algae/water plant, Skeletonema costatum)

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12.2. Persistence and degradability

benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9

Biodegradation: Yes, rapidly

nicotine CAS No.: 54-11-5 EC No.: 200-193-3

Biodegradation: Yes, rapidly

isopentyl acetate CAS No.: 123-92-2 EC No.: 204-662-3

Biodegradation: Yes, rapidly

hexanal CAS No.: 66-25-1 EC No.: 200-624-5

Biodegradation: Yes, rapidly

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

Biodegradation: Yes, rapidly

Hexenal (2-) CAS No.: 6728-26-3 EC No.: 229-778-1

Biodegradation: Yes, rapidly

acetic acid CAS No.: 64-19-7 EC No.: 200-580-7

Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9

Log K_{OW}: 1.1

Bioconcentration factor (BCF): 1.37

nicotine CAS No.: 54-11-5 EC No.: 200-193-3

Log Kow: 1.17

isopentyl acetate CAS No.: 123-92-2 EC No.: 204-662-3

Log K_{OW}: 2.7

Bioconcentration factor (BCF): 28.1

hexanal CAS No.: 66-25-1 EC No.: 200-624-5

Log K_{OW}: 2.3

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

Log Kow: 0.73

Bioconcentration factor (BCF): 30

acetic acid CAS No.: 64-19-7 EC No.: 200-580-7

Log K_{OW}: -0.17

Bioconcentration factor (BCF): 3.16

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

benzyl alcohol CAS No.: 100-51-6 EC No.: 202-859-9

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

nicotine CAS No.: 54-11-5 EC No.: 200-193-3

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

isopentyl acetate CAS No.: 123-92-2 EC No.: 204-662-3

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

hexanal CAS No.: 66-25-1 EC No.: 200-624-5

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Hexenal (2-) CAS No.: 6728-26-3 EC No.: 229-778-1

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1

Results of PBT and vPvB assessment: —

acetic acid CAS No.: 64-19-7 EC No.: 200-580-7

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not allow uncontrolled discharge of product into the environment.

Waste treatment options

Appropriate disposal / Product:

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate authorities about waste disposal.

Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or	ID number		
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper ship	ping name	,	•
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport haza	rd class(es)		
not relevant	not relevant	not relevant	not relevant
14.4. Packing group	*	,	•
not relevant	not relevant	not relevant	not relevant
14.5. Environmental	hazards	·	
not relevant	not relevant	not relevant	not relevant
14.6. Special precau	tions for user		
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Use restriction according to REACH annex XVII, no.: 3

Other regulations (EU):

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (Text with EEA relevance)

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ACGIH

ADN

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EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 94/62/EC of 20 December 1994 on packaging and packaging waste

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

Chemical safety assessments are not required for mixtures.

SECTION 16: Other information

16.1. Indication of changes

1.1.	Product identifier	
3.2.	Mixtures	
8.1.	Control parameters	
14.3.	Transport hazard class(es)	
16.1.	Indication of changes	

1

1	6.2. Abbreviations and acronyms			
	16.1.	Indication of changes		
	14.3.	Transport hazard class(es)		
	8.1.	Control parameters		

European Agreement concerning the International Carriage of Dangerous Goods by Inland

	waterways			
ADR	European Agreement concerning	the International C	Carriage of Dangerous	Goods by Road

Bioconcentration Factor **BCF** CAS Chemical Abstracts Service

Classification, Labelling and Packaging CLP

DIN German Institute for Standardization / German Industrial Standard

American Conference of Governmental Industrial Hygienists

DNEL derived no-effect level Effective Concentration 50% EC_{50} **ECHA** European Chemicals Agency

ΕN European Standard ES Exposure scenario

International Civil Aviation Organization **ICAO** International Maritime Dangerous Goods IMDG IMO International Maritime Organization International Standards Organisation ISO Lethal (fatal) Concentration 50% LC_{50}

Lethal (fatal) Dose 50% LD_{50}

MAK Maximum concentration in the workplace air (CH)

National Fire Protection Association **NFPA**

National Institute for Occupational Safety & Health NIOSH

NOFC No Observed Effect Concentration

OECD Organisation for Economic Cooperation and Development

OSHA Occupational Safety & Health Administration PBT persistent and bioaccumulative and toxic

Predicted No Effect Concentration **PNEC**

Quantitative Structure-Activity Relationship OSAR

REACH Registration, Evaluation and Authorization of Chemicals RID Dangerous goods regulations for transport by rail

Specific concentration limit SCL

TRGS Technische Regeln für Gefahrstoffe

UN **United Nations**

7NS central nervous system

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data

European Chemicals Agency, http://echa.europa.eu/ Umweltbundesamt, http://webrigoletto.uba.de/rigoletto

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (Acute Tox. 4)	H302: Harmful if swallowed.	Calculation method.
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	Hazard statements		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H300	Fatal if swallowed.		
H302	Harmful if swallowed.		
H310	Fatal in contact with skin.		
H311	Toxic in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H330	Fatal if inhaled.		
H332	Harmful if inhaled.		
H336	May cause drowsiness or dizziness.		
H411	Toxic to aquatic life with long lasting effects.		

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

Make sure that employees are aware of the intoxication risk. People wearing breathing apparatus must be appropriately trained.

16.7. Additional information

No data available

^{*} Data changed compared with the previous version.