

Candy Cane Marshmallow

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 3/2/2018 Revision date: 9/14/2023 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Candy Cane Marshmallow :
UFI
Product code : EU36486F
Type of product : Perfumes, fragrances
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Industrial/Professional use spec : For professional use only
Industrial
Use of the substance/mixture : Perfumes, fragrances
Function or use category : Odour agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LK FAMILY KFT
SELMECI UTCA 23, SOPRON , 9400, HUNGARY
info@candlemarket.hu

1.4. Emergency telephone number

Emergency number : 1-800-255-3924; +01-813-248-0585; China: +400-120-0751; Mexico: +01-800-099-0731;
Brazil: +0-800-591-6042; India: +000-800-100-4086

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|---|------|
| Acute toxicity (oral), Category 4 | H302 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Skin sensitisation, Category 1 | H317 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1 | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction. Very toxic to aquatic life.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07



GHS09

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| | |
|--------------------------------|--|
| Signal word (CLP) | : Warning |
| Hazard statements (CLP) | : H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H410 - Very toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face 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. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| Extra phrases | : For professional users only. |

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|----------------|---|
| Bis(2-ethylhexyl) adipate substance with national workplace exposure limit(s) (PL) | CAS-No.: 103-23-1 EC-No.: 203-090-1 REACH-no: 01-2119439699-19 | 22.875 – 45.75 | Not classified |
| Benzyl benzoate | CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371-33 | 12.8 – 25.6 | Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Vanillin | CAS-No.: 121-33-5 EC-No.: 204-465-2 REACH-no: 01-2119516040-60 | 2.95 – 5.9 | Eye Irrit. 2, H319 |
| Hexamethylindanopyran | CAS-No.: 1222-05-5 EC-No.: 214-946-9 EC Index-No.: 603-212-00-7 REACH-no: 01-2119488227-29 | 2.325 – 4.65 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Ethyl vanillin | CAS-No.: 121-32-4 EC-No.: 204-464-7 REACH-no: 01-211958961-24 | 2.15 – 4.3 | Eye Irrit. 2, H319 |
| Ethyl maltol | CAS-No.: 4940-11-8 EC-No.: 225-582-5 | 1.6 – 3.2 | Acute Tox. 4 (Oral), H302 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|--------------|---|
| Mentha arvensis oil | CAS-No.: 68917-18-0 EC-No.: 294-486-3 | 1.2 – 2.4 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Linalool | CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42 | 0.15 – 0.3 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Hexyl cinnamic aldehyde | CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50 | 0.15 – 0.3 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Heliotropine | CAS-No.: 120-57-0 EC-No.: 204-409-7 REACH-no: 01-2119983608-21 | 0.125 – 0.25 | Skin Sens. 1B, H317 |
| Iso E Super | CAS-No.: 54464-57-2 EC-No.: 259-174-3 REACH-no: 01-2119489989-04 | 0.1 – 0.2 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410 |
| Benzyl alcohol substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, SI, CH) | CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630-38 | 0.1 – 0.2 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| acetyl propionyl substance with national workplace exposure limit(s) (DE, SI, CH) | CAS-No.: 600-14-6 EC-No.: 209-984-8 | 0.05 – 0.1 | Flam. Liq. 2, H225 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a poison center or a doctor if you feel unwell. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Call a poison center or a doctor if you feel unwell. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Eye irritation. |

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Storage temperature : 25 °C
Storage area : Store in a well-ventilated place. Store away from heat.
Special rules on packaging : Store in a closed container.
Packaging materials : Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Bis(2-ethylhexyl) adipate (103-23-1) | |
|--|---|
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 400 mg/m ³ |
| Benzyl alcohol (100-51-6) | |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 40 mg/m ³ |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 45 mg/m ³ |
| HTP (OEL TWA) [2] | 10 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 22 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2] | 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |
| OEL chemical category | Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 240 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 22 mg/m ³ |
| OEL TWA [ppm] | 5 ppm |
| OEL STEL | 44 mg/m ³ |
| OEL STEL [ppm] | 10 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 22 mg/m ³ (aerosol, vapour) |
| MAK (OEL TWA) [2] | 5 ppm (aerosol, vapour) |
| OEL chemical category | Skin notation |
| acetyl propionyl (600-14-6) | |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 0.083 mg/m ³ |

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| acetyl propionyl (600-14-6) | |
|--|------------------------------------|
| AGW (OEL TWA) [2] | 0.02 ppm |
| Chemical category | Skin notation, Skin sensitization |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 0.083 mg/m ³ |
| OEL TWA [ppm] | 0.02 ppm |
| OEL STEL | 0.083 mg/m ³ |
| OEL STEL [ppm] | 0.02 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 0.08 mg/m ³ |
| MAK (OEL TWA) [2] | 0.02 ppm |
| KZGW (OEL STEL) | 0.16 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 0.04 ppm |
| OEL chemical category | Sensitizer, Skin notation |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

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8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Colour | : light yellow. amber. Conforms to standard. |
| Odour | : characteristic. characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : > 93.33 °C (closed cup) ASTM D7094 |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : ≈ 0.97 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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| | |
|----------------|--------------------------|
| ATE CLP (oral) | 1788.33 mg/kg bodyweight |
|----------------|--------------------------|

Bis(2-ethylhexyl) adipate (103-23-1)

| | |
|-----------------------|------------------------------|
| LD50 oral rat | 5600 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | 8410 mg/kg (Source: NLM_CIP) |
| LC50 Inhalation - Rat | > 5.7 mg/l/4h |

Benzyl benzoate (120-51-4)

| | |
|--------------------|------------------------------|
| LD50 oral rat | 500 mg/kg (Source: NLM_CIP) |
| LD50 oral | 1160 mg/kg bodyweight |
| LD50 dermal rabbit | 4000 mg/kg (Source: NLM_CIP) |

Vanillin (121-33-5)

| | |
|--------------------|----------------------------------|
| LD50 dermal rabbit | > 5010 mg/kg (Source: OECD_SIDS) |
| LD50 dermal | 2600 mg/kg bodyweight |

Hexamethylindanopyran (1222-05-5)

| | |
|--------------------|---------------------------------|
| LD50 oral rat | > 3250 mg/kg (Source: CHEMVIEW) |
| LD50 dermal rabbit | > 3250 mg/kg (Source: CHEMVIEW) |

Ethyl vanillin (121-32-4)

| | |
|-----------------|---------------------------------|
| LD50 oral rat | 1590 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3000 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg (Source: ECHA_API) |

Ethyl maltol (4940-11-8)

| | |
|--------------------|---------------------------------|
| LD50 oral rat | 1150 mg/kg (Source: NLM_CIP) |
| LD50 oral | 1200 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA_API) |

Mentha arvensis oil (68917-18-0)

| | |
|---------------|------------------------------|
| LD50 oral rat | 1240 mg/kg (Source: NZ_CCID) |
| LD50 oral | 1200 mg/kg bodyweight |

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| Linalool (78-70-6) | |
|---|--|
| LD50 oral | 2790 mg/kg bodyweight |
| Hexyl cinnamic aldehyde (101-86-0) | |
| LD50 oral rat | 3100 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3100 mg/kg bodyweight |
| LD50 dermal rabbit | > 3000 mg/kg (Source: EPA_HP) |
| LC50 Inhalation - Rat | > 5 mg/l/4h |
| Heliotropine (120-57-0) | |
| LD50 oral rat | 2700 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2700 mg/kg bodyweight |
| LD50 dermal rat | > 5000 mg/kg (Source: ECHA_API) |
| Benzyl alcohol (100-51-6) | |
| LD50 oral rat | 1230 mg/kg (Source: NLM_CIP) |
| LD50 oral | 1620 mg/kg bodyweight |
| LD50 dermal | 2500 mg/kg bodyweight |
| acetyl propionyl (600-14-6) | |
| LD50 oral rat | 3 g/kg (Source: NLM_CIP) |
| LD50 oral | 3000 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg (Source: NIOSH) |
| LD50 dermal | 2500 mg/kg bodyweight |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Bis(2-ethylhexyl) adipate (103-23-1) | |
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| acetyl propionyl (600-14-6) | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |
| Benzyl benzoate (120-51-4) | |
| Viscosity, kinematic | 7.456 mm ² /s |
| Heliotropine (120-57-0) | |
| Viscosity, kinematic | Not applicable |
| 11.2. Information on other hazards | |

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

| Bis(2-ethylhexyl) adipate (103-23-1) | |
|---|--|
| LC50 - Fish [1] | 0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| LC50 - Fish [2] | 0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA) |
| EC50 - Crustacea [1] | > 1.6 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | > 500 mg/l (Species: Desmodesmus subspicatus) |
| Benzyl benzoate (120-51-4) | |
| LC50 - Fish [1] | 2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |
| NOEC (chronic) | 0.168 mg/l |
| Vanillin (121-33-5) | |
| LC50 - Fish [1] | 53 – 61.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2] | 88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |
| NOEC (acute) | 10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight]) |
| Hexamethylindanopyran (1222-05-5) | |
| LC50 - Fish [1] | 0.452 mg/l Wolf, 1996d-27682 |
| LC50 - Other aquatic organisms [1] | > 0.14 mg/l REACH DOSSIER Pimephales promelas |
| EC50 - Crustacea [2] | 260 µg/l REACH Dossier |
| EC50 - Other aquatic organisms [1] | 0.131 mg/l REACH Dossier |
| Ethyl vanillin (121-32-4) | |
| LC50 - Fish [1] | 81.4 – 94.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| Ethyl maltol (4940-11-8) | |
| LC50 - Fish [1] | > 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: ECHA) |
| Linalool (78-70-6) | |
| EC50 96h - Algae [1] | 88.3 mg/l (Species: Desmodesmus subspicatus) |
| Heliotropine (120-57-0) | |
| LC50 - Fish [1] | 2.5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static] Source: ECHA) |
| Benzyl alcohol (100-51-6) | |
| LC50 - Fish [1] | 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |
| LC50 - Fish [2] | 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| EC50 - Crustacea [1] | 23 mg/l (Exposure time: 48 h - Species: water flea) |

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12.2. Persistence and degradability

Benzyl benzoate (120-51-4)

| | |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
|-------------------------------|---|

12.3. Bioaccumulative potential

Bis(2-ethylhexyl) adipate (103-23-1)

| | |
|----------------|--------------------|
| BCF - Fish [1] | (27 dimensionless) |
|----------------|--------------------|

| | |
|---|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 8.94 (at 25 °C) |
|---|-----------------|

Benzyl benzoate (120-51-4)

| | |
|---|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.97 (at 25 °C) |
|---|-----------------|

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

Vanillin (121-33-5)

| | |
|---|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.23 (at 22 °C) |
|---|-----------------|

Hexamethylindanopyran (1222-05-5)

| | |
|----------------|--|
| BCF - Fish [1] | (1618 dimensionless (whole body w.w.)) |
|----------------|--|

| | |
|---|--------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 5.3 (at 25 °C (at pH 7)) |
|---|--------------------------|

Ethyl vanillin (121-32-4)

| | |
|---|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.61 (at 25 °C) |
|---|-----------------|

Ethyl maltol (4940-11-8)

| | |
|---|----------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.9 (at 25 °C) |
|---|----------------|

Heliotropine (120-57-0)

| | |
|---|----------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.2 (at 35 °C) |
|---|----------------|

Benzyl alcohol (100-51-6)

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 1.05 |
|---|------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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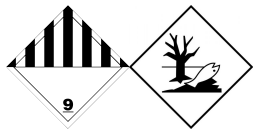
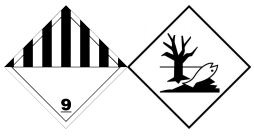
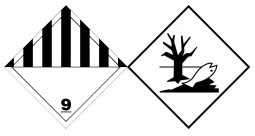
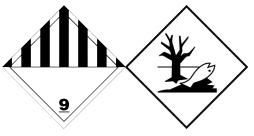
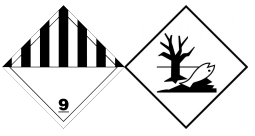
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

HP Code

- : HP3 - "Flammable:"
- flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
 - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 - flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
 - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
 - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
- HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
- HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|--|---|---|---|---|
| 14.1. UN number or ID number | | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| 14.2. UN proper shipping name | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN) | Environmentally hazardous substance, liquid, n.o.s. (HEXAMETHYLINDANOPYRAN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN) |
| Transport document description | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (HEXAMETHYLINDANOPYRAN), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLINDANOPYRAN), 9, III |
| 14.3. Transport hazard class(es) | | | | |
| 9 | 9 | 9 | 9 | 9 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |

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| ADR | IMDG | IATA | ADN | RID |
|--|------|------|-----|-----|
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

| | |
|---|--|
| Classification code (ADR) | : M6 |
| Special provisions (ADR) | : 274, 335, 375, 601 |
| Limited quantities (ADR) | : 5L |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : PP1 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T4 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29 |
| Tank code (ADR) | : LGBV |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13 |
| Hazard identification number (Kemler No.) | : 90 |
| Orange plates | :  |
| Tunnel restriction code (ADR) | : - |
| EAC code | : •3Z |

Transport by sea

| | |
|-----------------------------------|-----------------|
| Special provisions (IMDG) | : 274, 335, 969 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : LP01, P001 |
| Special packing provisions (IMDG) | : PP1 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP1, TP29 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-F |
| Stowage category (IMDG) | : A |

Air transport

| | |
|--|-------------------------|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y964 |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 964 |
| PCA max net quantity (IATA) | : 450L |
| CAO packing instructions (IATA) | : 964 |
| CAO max net quantity (IATA) | : 450L |
| Special provisions (IATA) | : A97, A158, A197, A215 |
| ERG code (IATA) | : 9L |

Inland waterway transport

| | |
|---------------------------|----------------------|
| Classification code (ADN) | : M6 |
| Special provisions (ADN) | : 274, 335, 375, 601 |
| Limited quantities (ADN) | : 5 L |
| Excepted quantities (ADN) | : E1 |
| Carriage permitted (ADN) | : T |
| Equipment required (ADN) | : PP |

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Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|---|--|
| Reference code | Applicable on | Entry title or description |
| 3(a) | acetyl propionyl | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |
| 3(b) | Candy Cane Marshmallow ; Benzyl benzoate ; Mentha arvensis oil ; Linalool ; Hexyl cinnamic aldehyde ; Iso E Super ; Benzyl alcohol ; acetyl propionyl | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | Candy Cane Marshmallow ; Benzyl benzoate ; Hexamethylindanopyran ; Mentha arvensis oil ; Hexyl cinnamic aldehyde ; Iso E Super | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 40. | acetyl propionyl | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

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REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name | CN designation | CAS-No. | CN code | Category | Threshold | Annex |
|-----------|----------------|----------|------------|------------|-----------|---------|
| Piperonal | | 120-57-0 | 2932 93 00 | Category 1 | | Annex I |

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : A(1) - highly toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen : Cornmint oil (redist) is listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BLV | Biological limit value |
| CAS-No. | Chemical Abstract Service number |

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| Abbreviations and acronyms: | |
|-----------------------------|---|
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| EC-No. | European Community number |
| EN | European Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |
| WGK | Water Hazard Class |

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |

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Full text of H- and EUH-statements:

| | |
|---------------|--|
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.