

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

1.1. Product identifier

| | |
|-----------------|------------------------|
| Product form | : Mixture |
| Product name | : Mango |
| UFI | : 1XCA-E4JWM00Q-7PQE |
| 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 | : Professional use, Industrial use |
| Industrial/Professional use spec | : Industrial For professional use only |
| 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

Forget Me Not Oils
Calle Torrevieja 2, San Miguel de salinas
Alicante
03193 Spain
www.forgetmenotoilseurope.com & forgetmenothf@gmail.com

1.4. Emergency telephone number

Emergency number 0034 711024907

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|---|------|
| Skin sensitisation, Category 1 | H317 |
| 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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Hazard pictograms (CLP)



Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--------------------------------|---|
| Signal word (CLP) | : Warning |
| Contains | : Hexyl cinnamic aldehyde, Hexyl salicylate, Vertenex, Linalool, d-Limonene, Citronellol Pure, Orange oil, Cyclamen aldehyde, delta-Damascone, Melonal, Citral, Linalyl acetate, Allyl cyclohexylpropionate, Aldehyde C-16, Lime oil distilled, Dipentene, Geranyl acetate |
| Hazard statements (CLP) | : H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : 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. P302+P352 - IF ON SKIN: Wash with plenty of water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

2.3. Other hazards

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

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] |
|---|---|----------------|---|
| Hexyl cinnamic aldehyde | CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50 | 11.225 – 22.45 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Ethyl maltol | CAS-No.: 4940-11-8 EC-No.: 225-582-5 | 2.15 – 4.3 | Acute Tox. 4 (Oral), H302 |
| Verdox | CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713-33 | 1.9 – 3.8 | Aquatic Chronic 2, H411 |
| Hexamethylindanopyran | CAS-No.: 1222-05-5 EC-No.: 214-946-9 EC Index-No.: 603-212-00-7 REACH-no: 01-2119488227-29 | 1.8 – 3.6 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol | CAS-No.: 63500-71-0 EC-No.: 405-040-6 EC Index-No.: 603-101-00-3 REACH-no: 01-000015458-64 | 0.825 – 3.3 | Eye Irrit. 2, H319 |
| Vertenex | CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286-24 | 1.35 – 2.7 | Skin Sens. 1B, H317 |
| Dimethylbenzyl carbinyl butyrate(DMBCB) | CAS-No.: 10094-34-5 EC-No.: 233-221-8 REACH-no: 01-2120742578-44 | 0.825 – 1.65 | Skin Irrit. 2, H315 Aquatic Chronic 2, H411 |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|--------------|---|
| Aldehyde C-14 | CAS-No.: 104-67-6 EC-No.: 203-225-4 REACH-no: 01-2119959333-34 | 0.825 – 1.65 | Aquatic Chronic 3, H412 |
| Linalool | CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42 | 0.78 – 1.56 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| d-Limonene | CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7;601-096-00-2 REACH-no: 01-2119493353-35 | 0.765 – 1.53 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| Citronellol Pure | CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995-23 | 0.7 – 1.4 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Orange oil | CAS-No.: 8008-57-9 EC-No.: 232-433-8; 600-006-9; 616-926-9 REACH-no: 01-2119493353-35 | 0.44 – 0.88 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Cyclamen aldehyde | CAS-No.: 103-95-7 EC-No.: 203-161-7 REACH-no: 01-2119970582-32 | 0.4 – 0.8 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| Ethyl acetate substance with a Community workplace exposure limit | CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-46 | 0.325 – 0.65 | Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H336 |
| delta-Damascone | CAS-No.: 57378-68-4 EC-No.: 260-709-8 | 0.3 – 0.6 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410 |
| Allyl heptanoate | CAS-No.: 142-19-8 EC-No.: 205-527-1 REACH-no: 01-2119488961-23 | 0.3 – 0.6 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| Melonal | CAS-No.: 106-72-9 EC-No.: 203-427-2 | 0.25 – 0.5 | Skin Sens. 1B, H317 |
| Citral | CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829-23 | 0.21 – 0.42 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------------|---|
| Linalyl acetate | CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789-19 | 0.2 – 0.4 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Allyl cyclohexylpropionate | CAS-No.: 2705-87-5 EC-No.: 220-292-5 | 0.175 – 0.35 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Hexyl salicylate | CAS-No.: 6259-76-3 EC-No.: 228-408-6 | 0.0165 – 0.33 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Allyl caproate | CAS-No.: 123-68-2 EC-No.: 204-642-4 REACH-no: 01-2119983573-26 | 0.125 – 0.25 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| Aldehyde C-16 | CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770-28 | 0.125 – 0.25 | Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| Lime oil distilled | CAS-No.: 8008-26-2 EC-No.: 290-010-3 REACH-no: 01-2120138646-51 | 0.085 – 0.17 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 1, H410 |
| Dipentene | CAS-No.: 138-86-3 | 0.085 – 0.17 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Isoamyl acetate substance with a Community workplace exposure limit | CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408-32 | 0.075 – 0.15 | Flam. Liq. 3, H226 |
| Geranyl acetate | CAS-No.: 105-87-3 EC-No.: 203-341-5 REACH-no: 01-2119973480-35 | 0.06 – 0.12 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |

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 after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

No additional information available

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

Treat symptomatically.

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.

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

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. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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.

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| d-Limonene (5989-27-5) | |
|--|---|
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 140 mg/m ³ |
| HTP (OEL TWA) [2] | 25 ppm |
| HTP (OEL STEL) | 280 mg/m ³ |
| HTP (OEL STEL) [ppm] | 50 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 28 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, Skin sensitization |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 28 mg/m ³ |
| OEL TWA [ppm] | 5 ppm |
| OEL STEL | 112 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 168 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 30 ppm |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 140 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 37.5 ppm (value calculated) |
| OEL chemical category | Allergenic substance |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 40 mg/m ³ |
| MAK (OEL TWA) [2] | 7 ppm |
| KZGW (OEL STEL) | 80 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 14 ppm |
| OEL chemical category | Sensitizer |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Ethyl acetate (141-78-6) | |
|---|------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 734 mg/m ³ |
| IOEL TWA [ppm] | 200 ppm |
| IOEL STEL | 1468 mg/m ³ |
| IOEL STEL [ppm] | 400 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 734 mg/m ³ |
| MAK (OEL TWA) [ppm] | 200 ppm |
| MAK (OEL STEL) | 1468 mg/m ³ |
| MAK (OEL STEL) [ppm] | 400 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 734 mg/m ³ |
| OEL TWA [ppm] | 200 ppm |
| OEL STEL | 1468 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 734 mg/m ³ |
| OEL TWA [ppm] | 200 ppm |
| OEL STEL | 1468 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 734 mg/m ³ |
| GVI (OEL TWA) [2] | 200 ppm |
| KGVI (OEL STEL) | 1468 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 400 ppm |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 734 mg/m ³ |
| OEL TWA [ppm] | 200 ppm |
| OEL STEL | 1468 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 700 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 540 mg/m ³ |
| OEL TWA [2] | 150 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 500 mg/m ³ |
| OEL TWA [ppm] | 150 ppm |
| OEL STEL | 1100 mg/m ³ |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Ethyl acetate (141-78-6) | |
|--|--|
| OEL STEL [ppm] | 300 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 730 mg/m ³ |
| HTP (OEL TWA) [2] | 200 ppm |
| HTP (OEL STEL) | 1470 mg/m ³ |
| HTP (OEL STEL) [ppm] | 400 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 1400 mg/m ³ |
| VME (OEL TWA) [ppm] | 400 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 730 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] | 200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 200 mg/m ³ |
| OEL TWA [ppm] | 734 ppm |
| OEL STEL | 400 mg/m ³ |
| OEL STEL [ppm] | 1468 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 734 mg/m ³ |
| OEL TWA [ppm] | 200 ppm |
| OEL STEL | 1468 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 734 mg/m ³ |
| CK (OEL STEL) | 1468 mg/m ³ |
| OEL chemical category | Sensitizer |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 734 mg/m ³ |
| OEL TWA [2] | 200 ppm |
| OEL STEL | 1468 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 734 mg/m ³ |
| OEL TWA [ppm] | 200 ppm |
| OEL STEL | 1468 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 200 mg/m ³ |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Ethyl acetate (141-78-6) | |
|---|---|
| OEL TWA [ppm] | 54 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 500 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 150 ppm |
| NRV (OEL C) | 1100 mg/m ³ |
| NRV (OEL C) [ppm] | 300 ppm |
| Luxembourg - Occupational Exposure Limits | |
| OEL STEL | 1468 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 734 mg/m ³ |
| OEL TWA [ppm] | 200 ppm |
| OEL STEL | 1468 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 734 mg/m ³ |
| TGG-15min (OEL STEL) | 1468 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 734 mg/m ³ |
| NDSch (OEL STEL) | 1468 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 734 mg/m ³ (indicative limit value) |
| OEL TWA [ppm] | 200 ppm (indicative limit value) |
| OEL STEL | 1468 mg/m ³ (indicative limit value) |
| OEL STEL [ppm] | 400 ppm (indicative limit value) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 400 mg/m ³ |
| OEL TWA [ppm] | 111 ppm |
| OEL STEL | 500 mg/m ³ |
| OEL STEL [ppm] | 139 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 734 mg/m ³ |
| NPHV (OEL TWA) [2] | 200 ppm |
| NPHV (OEL C) | 1100 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 734 mg/m ³ |
| OEL TWA [ppm] | 200 ppm |
| OEL STEL | 1468 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Ethyl acetate (141-78-6) | |
|--|--|
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 734 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 200 ppm |
| VLA-EC (OEL STEL) | 1468 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 400 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 550 mg/m ³ |
| NGV (OEL TWA) [ppm] | 150 ppm |
| KTV (OEL STEL) | 1100 mg/m ³ |
| KTV (OEL STEL) [ppm] | 300 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 734 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 200 ppm |
| WEL STEL (OEL STEL) | 1468 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 400 ppm |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 734 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 200 ppm |
| Korttidsverdi (OEL STEL) | 1468 mg/m ³ (value from the regulation) |
| Korttidsverdi (OEL STEL) [ppm] | 400 ppm (value from the regulation) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 730 mg/m ³ |
| MAK (OEL TWA) [2] | 200 ppm |
| KZGW (OEL STEL) | 1460 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 400 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 400 ppm |
| Citral (5392-40-5) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 32 mg/m ³ (vapor and aerosol) |
| OEL TWA [ppm] | 5 ppm (vapor and aerosol) |
| OEL chemical category | Skin |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [2] | 5 ppm |
| OEL STEL [ppm] | 15 ppm (calculated) |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 27 mg/m ³ |
| NDSch (OEL STEL) | 54 mg/m ³ |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Citral (5392-40-5) | |
|---|---|
| Portugal - Occupational Exposure Limits | |
| OEL TWA [ppm] | 5 ppm |
| OEL chemical category | Sensitizer, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [2] | 5 ppm (inhalable fraction and vapor) |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 5 ppm (inhalable fraction and vapor) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer |
| Dipentene (138-86-3) | |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 150 mg/m ³ |
| OEL TWA [ppm] | 25 ppm |
| OEL STEL | 300 mg/m ³ |
| OEL STEL [ppm] | 50 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 150 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 25 ppm |
| TPRV (OEL STEL) | 300 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 50 ppm |
| OEL chemical category | Sensitizer |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 150 mg/m ³ |
| NGV (OEL TWA) [ppm] | 25 ppm |
| KTV (OEL STEL) | 300 mg/m ³ |
| KTV (OEL STEL) [ppm] | 50 ppm |
| OEL chemical category | Sensitizer |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 140 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 37.5 ppm (value calculated) |
| OEL chemical category | Allergenic substance |
| Isoamyl acetate (123-92-2) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 270 mg/m ³ |
| IOEL TWA [ppm] | 50 ppm |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Isoamyl acetate (123-92-2) | |
|--|--|
| IOEL STEL | 540 mg/m ³ |
| IOEL STEL [ppm] | 100 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 270 mg/m ³ (Pentyl acetate (all isomers)) |
| MAK (OEL TWA) [ppm] | 50 ppm (Pentyl acetate (all isomers)) |
| MAK (OEL STEL) | 540 mg/m ³ (Pentylacetate) |
| MAK (OEL STEL) [ppm] | 100 ppm (Pentylacetate) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 270 mg/m ³ |
| GVI (OEL TWA) [2] | 50 ppm |
| KGVI (OEL STEL) | 540 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 100 ppm |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 271 mg/m ³ (Amyl acetate, all isomers) |
| OEL TWA [2] | 50 ppm (Amyl acetate, all isomers) |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 270 mg/m ³ (Pentyl acetate) |
| HTP (OEL TWA) [2] | 50 ppm (Pentyl acetate) |
| HTP (OEL STEL) | 540 mg/m ³ |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Isoamyl acetate (123-92-2) | |
|--|---|
| HTP (OEL STEL) [ppm] | 100 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 270 mg/m ³ (restrictive limit) |
| VME (OEL TWA) [ppm] | 50 ppm (restrictive limit) |
| VLE (OEL C/STEL) | 540 mg/m ³ (restrictive limit) |
| VLE (OEL C/STEL) [ppm] | 100 ppm (restrictive limit) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 270 mg/m ³ |
| AGW (OEL TWA) [2] | 50 ppm |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 530 mg/m ³ |
| OEL TWA [ppm] | 100 ppm |
| OEL STEL | 800 mg/m ³ |
| OEL STEL [ppm] | 150 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 270 mg/m ³ |
| CK (OEL STEL) | 540 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 260 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 520 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 270 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 50 ppm |
| TPRV (OEL STEL) | 540 mg/m ³ |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Isoamyl acetate (123-92-2) | |
|---|---|
| TPRV (OEL STEL) [ppm] | 100 ppm |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-15min (OEL STEL) | 530 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 250 mg/m ³ |
| NDSCh (OEL STEL) | 500 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ (indicative limit value) |
| OEL TWA [ppm] | 50 ppm (indicative limit value) |
| OEL STEL | 540 mg/m ³ (indicative limit value) |
| OEL STEL [ppm] | 100 ppm (indicative limit value, regulated under Pentyl acetate, all isomers) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 270 mg/m ³ |
| NPHV (OEL TWA) [2] | 50 ppm |
| NPHV (OEL C) | 540 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 270 mg/m ³ (indicative limit value) |
| VLA-ED (OEL TWA) [2] | 50 ppm (indicative limit value) |
| VLA-EC (OEL STEL) | 540 mg/m ³ |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Isoamyl acetate (123-92-2) | |
|---|--|
| VLA-EC (OEL STEL) [ppm] | 100 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 270 mg/m ³ (Pentyl acetates) |
| NGV (OEL TWA) [ppm] | 50 ppm (Pentyl acetates) |
| KTV (OEL STEL) | 540 mg/m ³ (Pentyl acetates) |
| KTV (OEL STEL) [ppm] | 100 ppm (Pentyl acetates) |
| Norway - Occupational Exposure Limits | |
| Grønseverdi (OEL TWA) [1] | 260 mg/m ³ |
| Grønseverdi (OEL TWA) [2] | 50 ppm |
| Korttidsverdi (OEL STEL) | 325 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 75 ppm (value calculated) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 50 ppm (Pentyl acetate, all isomers) |
| ACGIH OEL STEL [ppm] | 100 ppm (Pentyl acetate, all isomers) |

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

Mango RD

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 84 °C (closed cup) ASTM D7094 |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : ≈ 0.95 |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

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.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Hexyl cinnamic aldehyde (101-86-0)

| | |
|-----------------------|-----------------------|
| LD50 oral rat | 3100 mg/kg |
| LD50 oral | 3100 mg/kg bodyweight |
| LD50 dermal rabbit | > 3000 mg/kg |
| LC50 Inhalation - Rat | > 5 mg/l/4h |

Ethyl maltol (4940-11-8)

| | |
|--------------------|-----------------------|
| LD50 oral rat | 1150 mg/kg |
| LD50 oral | 1200 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg |

Verdox (88-41-5)

| | |
|---------------|-----------------------|
| LD50 oral rat | 4600 mg/kg |
| LD50 oral | 4600 mg/kg bodyweight |

Hexamethylindanopyran (1222-05-5)

| | |
|--------------------|--------------|
| LD50 oral rat | > 3250 mg/kg |
| LD50 dermal rabbit | > 3250 mg/kg |

2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol (63500-71-0)

| | |
|--------------------|--------------|
| LD50 dermal rabbit | > 2000 mg/kg |
|--------------------|--------------|

Hexyl salicylate (6259-76-3)

| | |
|--------------------|--------------|
| LD50 oral rat | > 5 g/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

Vertenex (32210-23-4)

| | |
|--------------------|-----------------------|
| LD50 oral rat | 5 g/kg |
| LD50 oral | 3370 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg |

Dimethylbenzyl carbonyl butyrate(DMBCB) (10094-34-5)

| | |
|---------------|----------|
| LD50 oral rat | > 5 g/kg |
|---------------|----------|

Aldehyde C-14 (104-67-6)

| | |
|-----------------|--------------|
| LD50 oral rat | 18500 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

Linalool (78-70-6)

| | |
|-----------|-----------------------|
| LD50 oral | 2790 mg/kg bodyweight |
|-----------|-----------------------|

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| d-Limonene (5989-27-5) | |
|---|-----------------------|
| LD50 oral rat | 4400 mg/kg |
| LD50 dermal rabbit | > 5 g/kg |
| Citronellol Pure (106-22-9) | |
| LD50 oral rat | 3450 mg/kg |
| LD50 oral | 3450 mg/kg bodyweight |
| LD50 dermal rabbit | 2650 mg/kg |
| LD50 dermal | 2650 mg/kg bodyweight |
| Orange oil (8008-57-9) | |
| LD50 oral rat | 4400 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| Cyclamen aldehyde (103-95-7) | |
| LD50 oral rat | 3810 mg/kg |
| LD50 oral | 3810 mg/kg bodyweight |
| LD50 dermal rat | > 5000 mg/kg |
| Ethyl acetate (141-78-6) | |
| LD50 oral rat | 5620 mg/kg |
| LD50 dermal rabbit | > 18000 mg/kg |
| LC50 Inhalation - Rat [ppm] | 4000 ppm/4h |
| delta-Damascone (57378-68-4) | |
| LD50 oral | 1400 mg/kg bodyweight |
| Allyl heptanoate (142-19-8) | |
| LD50 oral rat | 500 mg/kg |
| LD50 oral | 218 mg/kg bodyweight |
| LD50 dermal rabbit | 810 mg/kg |
| LD50 dermal | 810 mg/kg bodyweight |
| Melonal (106-72-9) | |
| LD50 oral rat | > 5 g/kg |
| Citral (5392-40-5) | |
| LD50 oral rat | 4960 mg/kg |
| LD50 dermal rabbit | 2250 mg/kg |
| LD50 dermal | 2250 mg/kg bodyweight |
| Linalyl acetate (115-95-7) | |
| LD50 oral rat | 14550 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| Allyl cyclohexylpropionate (2705-87-5) | |
| LD50 oral rat | 585 mg/kg |
| LD50 oral | 480 mg/kg bodyweight |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Allyl cyclohexylpropionate (2705-87-5) | |
|---|---|
| LD50 dermal rabbit | 1600 mg/kg |
| LD50 dermal | 1600 mg/kg bodyweight |
| LC50 Inhalation - Rat (Vapours) | 11 mg/l/4h |
| Allyl caproate (123-68-2) | |
| LD50 oral | 300 mg/kg bodyweight |
| LD50 dermal rabbit | 820 mg/kg |
| LD50 dermal | 300 mg/kg bodyweight |
| LC50 Inhalation - Rat (Vapours) | 3 mg/l/4h |
| Aldehyde C-16 (77-83-8) | |
| LD50 oral rat | 5470 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| Lime oil distilled (8008-26-2) | |
| LD50 oral rat | 5600 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| Dipentene (138-86-3) | |
| LD50 oral rat | 5300 mg/kg |
| Geranyl acetate (105-87-3) | |
| LD50 oral rat | 6330 mg/kg |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| d-Limonene (5989-27-5) | |
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| Ethyl acetate (141-78-6) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| SECTION 12: Ecological information | |
| 12.1. Toxicity | |
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects. |
| Ethyl maltol (4940-11-8) | |
| LC50 - Fish [1] | > 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| 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 |
| Vertenex (32210-23-4) | |
| LC50 - Fish [1] | 8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static]) |
| Aldehyde C-14 (104-67-6) | |
| LC50 - Fish [1] | 569 mg/l 96 h |
| EC50 - Crustacea [1] | 5.85 mg/l 48 h |
| EC50 - Other aquatic organisms [1] | 5.94 mg/l 72 h |
| Linalool (78-70-6) | |
| EC50 96h - Algae [1] | 88.3 mg/l (Species: Desmodemus subspicatus) |
| d-Limonene (5989-27-5) | |
| LC50 - Fish [1] | 0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 - Fish [2] | 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| Ethyl acetate (141-78-6) | |
| LC50 - Fish [1] | 220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 - Fish [2] | 484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| EC50 - Crustacea [1] | 560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| Citral (5392-40-5) | |
| EC50 - Crustacea [1] | 7 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | 16 mg/l (Species: Desmodemus subspicatus) |
| EC50 96h - Algae [1] | 19 mg/l (Species: Desmodemus subspicatus) |
| Linalyl acetate (115-95-7) | |
| LC50 - Fish [1] | 11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through]) |
| Allyl cyclohexylpropionate (2705-87-5) | |
| LC50 - Fish [1] | 0.13 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| Allyl caproate (123-68-2) | |
| LC50 - Fish [1] | 0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) |
| Aldehyde C-16 (77-83-8) | |
| LC50 - Fish [1] | 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

| Ethyl acetate (141-78-6) | |
|---------------------------------|----|
| BCF - Fish [1] | 30 |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Ethyl acetate (141-78-6)

Partition coefficient n-octanol/water (Log Pow) 0.6

Citral (5392-40-5)

Partition coefficient n-octanol/water (Log Pow) 2.76 (at 25 °C)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. 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.

SECTION 14: Transport information

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

14.1 UN number

UN-No. (ADR) : UN 3082
UN-No. (IMDG) : UN 3082
UN-No. (IATA) : UN 3082
UN-No. (ADN) : UN 3082
UN-No. (RID) : UN 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Hexamethylindanopyran), 9, III, (-)
Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Hexamethylindanopyran), 9, III, MARINE POLLUTANT
Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Hexamethylindanopyran), 9, III
Transport document description (ADN) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Hexamethylindanopyran), 9, III
Transport document description (RID) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Hexamethylindanopyran), 9, III

14.3. Transport hazard class(es)

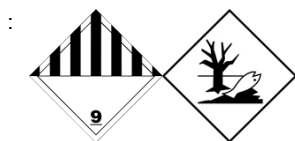
ADR

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9

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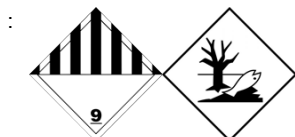
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



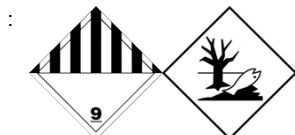
IMDG

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9



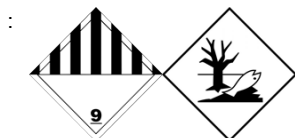
IATA

Transport hazard class(es) (IATA) : 9
Danger labels (IATA) : 9



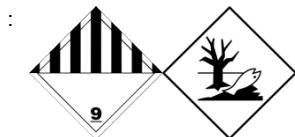
ADN

Transport hazard class(es) (ADN) : 9
Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9
Danger labels (RID) : 9



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : 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) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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
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

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|---|--------------|
| 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. Transport in bulk according to Annex II of Marpol and the IBC Code

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

EU restriction list (REACH Annex XVII)

| Reference code | Applicable on |
|----------------|--|
| 3(a) | d-Limonene ; Orange oil ; Ethyl acetate ; Lime oil distilled ; Dipentene ; Isoamyl acetate |
| 3(b) | Mango ; Hexyl cinnamic aldehyde ; 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol ; Hexyl salicylate ; Vertenex ; Dimethylbenzyl carbonyl butyrate(DMBCB) ; Linalool ; d-Limonene ; Citronellol Pure ; Orange oil ; Cyclamen aldehyde ; Ethyl acetate ; delta-Damascone ; Allyl heptanoate ; Melonal ; Citral ; Linalyl acetate ; Allyl cyclohexylpropionate ; Allyl caproate ; Aldehyde C-16 ; Lime oil distilled ; Dipentene ; Geranyl acetate |
| 3(c) | Mango ; Hexyl cinnamic aldehyde ; Verdox ; Hexamethylindanopyran ; Hexyl salicylate ; Dimethylbenzyl carbonyl butyrate(DMBCB) ; Aldehyde C-14 ; d-Limonene ; Orange oil ; Cyclamen aldehyde ; delta-Damascone ; Allyl heptanoate ; Allyl cyclohexylpropionate ; Allyl caproate ; Aldehyde C-16 ; Lime oil distilled ; Dipentene ; Geranyl acetate |
| 40. | d-Limonene ; Orange oil ; Ethyl acetate ; Lime oil distilled ; Dipentene ; Isoamyl acetate |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

France

Occupational diseases

| Code | Description |
|-------|---|
| RG 84 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

SZW-lijst van kankerverwekkende stoffen : Orange oil is listed
SZW-lijst van mutagene stoffen : Orange oil is 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

Class for fire hazard : Class III-1
Store unit : 50 liter
Classification remarks : Flammable according to the Danish Ministry of Justice; 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

Switzerland

Storage class (LK) : LK 10/12 - Liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

| | |
|---------------------------|---|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| 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 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 1 | Flammable liquids, Category 1 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H224 | Extremely flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |

Mango

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

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.