

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

1.1. Product identifier

| | |
|-----------------|-------------------------------------|
| Product form | : Mixture |
| Product name | : Pomegranate Flowers AT 25% in DPG |
| 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

| | |
|----------------------------------|---|
| 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

No additional information available

1.4. Emergency telephone number

No additional information available

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 3 | H412 |

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

| | |
|--------------------------------|---|
| Signal word (CLP) | : Warning |
| Contains | : Aldehyde C-16, Citronellol Pure, Cyclamen aldehyde, Ethyl linalool, Floralozone, Geraniol, Hexyl cinnamic aldehyde, Orange oil , Triplal (Vertocitral) |
| Hazard statements (CLP) | : H317 - May cause an allergic skin reaction. H412 - Harmful 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. |

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P302+P352 - IF ON SKIN: Wash with plenty of water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

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] |
|--------------------------------|--|--------------------|---|
| Aldehyde C-14 | CAS-No.: 104-67-6 EC-No.: 203-225-4 REACH-no: 01-2119959333-34 | 1.06125 – 2.1225 | Aquatic Chronic 3, H412 |
| Aldehyde C-16 | CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770-28 | 1.003875 – 2.00775 | Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| Orange oil | CAS-No.: 8008-57-9 EC-No.: 232-433-8; 600-006-9; 616-926-9 REACH-no: 01-2119493353-35 | 0.93125 – 1.8625 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Citronellol Pure | CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995-23 | 0.66875 – 1.3375 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Verdox | CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713-33 | 0.575 – 1.15 | Aquatic Chronic 2, H411 |
| Geraniol | CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5 REACH-no: 01-2119552430-49 | 0.4 – 0.8 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 |
| Allyl caproate | CAS-No.: 123-68-2 EC-No.: 204-642-4 REACH-no: 01-2119983573-26 | 0.29825 – 0.5965 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| 3,7-Dimethyl-1,6-nonadien-3-ol | CAS-No.: 10339-55-6 EC-No.: 233-732-6 REACH-no: 01-2119969272-32 | 0.225 – 0.45 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|--------------------|--|
| Cyclamen aldehyde | CAS-No.: 103-95-7 EC-No.: 203-161-7 REACH-no: 01-2119970582-32 | 0.15 – 0.3 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| Triplal (Vertocitral) | CAS-No.: 68039-49-6 EC-No.: 268-264-1 | 0.15 – 0.3 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Hexyl cinnamic aldehyde | CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50 | 0.09375 – 0.1875 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Amyl salicylate | CAS-No.: 2050-08-0 EC-No.: 218-080-2 REACH-no: 01-2119969444-27 | 0.068875 – 0.13775 | Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410 |
| Floralozone | CAS-No.: 67634-15-5 EC-No.: 266-819-2 REACH-no: 01-2120758796-34 | 0.05625 – 0.1125 | Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Skin Sens. 1B, H317 |
| Propanoic acid substance with a Community workplace exposure limit | CAS-No.: 79-09-4 EC-No.: 201-176-3 EC Index-No.: 607-089-00-0 | 0 – 0.0025 | Flam. Liq. 3, H226 Skin Corr. 1B, H314 STOT SE 3, H335 |
| Diphenyl oxide substance with a Community workplace exposure limit | CAS-No.: 101-84-8 EC-No.: 202-981-2 REACH-no: 01-2119472545-33 | 0 – 0.0025 | Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|----------------|---|---|
| Propanoic acid | CAS-No.: 79-09-4 EC-No.: 201-176-3 EC Index-No.: 607-089-00-0 | (10 ≤C < 100) STOT SE 3, H335 (10 ≤C < 25) Eye Irrit. 2, H319 (10 ≤C < 25) Skin Irrit. 2, H315 (25 ≤C < 100) Skin Corr. 1B, H314 |

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 | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

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

| | |
|------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
|------------------|--|

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

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

| Propanoic acid (79-09-4) | |
|---|----------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 31 mg/m ³ |
| IOEL TWA [ppm] | 10 ppm |
| IOEL STEL | 62 mg/m ³ |
| IOEL STEL [ppm] | 20 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 31 mg/m ³ |
| MAK (OEL TWA) [ppm] | 10 ppm |
| MAK (OEL STEL) | 62 mg/m ³ |
| MAK (OEL STEL) [ppm] | 20 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 31 mg/m ³ |
| GVI (OEL TWA) [2] | 10 ppm |
| KGVI (OEL STEL) | 62 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 20 ppm |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 30 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 31 mg/m ³ |
| OEL TWA [2] | 10 ppm |

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| Propanoic acid (79-09-4) | |
|--|---|
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 30 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 31 mg/m ³ |
| HTP (OEL TWA) [2] | 10 ppm |
| HTP (OEL STEL) | 61 mg/m ³ |
| HTP (OEL STEL) [ppm] | 20 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 31 mg/m ³ (indicative limit) |
| VME (OEL TWA) [ppm] | 10 ppm (indicative limit) |
| VLE (OEL C/STEL) | 62 mg/m ³ (indicative limit) |
| VLE (OEL C/STEL) [ppm] | 20 ppm (indicative limit) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 31 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] | 10 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 | 31 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 30 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 60 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 31 mg/m ³ |
| CK (OEL STEL) | 62 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 31 mg/m ³ |
| OEL TWA [2] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ |

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| Propanoic acid (79-09-4) | |
|---|---|
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 31 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 10 ppm |
| TPRV (OEL STEL) | 62 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 20 ppm |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 31 mg/m ³ |
| TGG-15min (OEL STEL) | 62 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 30 mg/m ³ |
| NDSch (OEL STEL) | 45 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ (indicative limit value) |
| OEL TWA [ppm] | 10 ppm (indicative limit value) |
| OEL STEL | 62 mg/m ³ (indicative limit value) |
| OEL STEL [ppm] | 20 ppm (indicative limit value) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 31 mg/m ³ |

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| Propanoic acid (79-09-4) | |
|---|---|
| NPHV (OEL TWA) [2] | 10 ppm |
| NPHV (OEL C) | 62 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 31 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 62 mg/m ³ |
| OEL STEL [ppm] | 20 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 31 mg/m ³ (indicative limit value) |
| VLA-ED (OEL TWA) [2] | 10 ppm (indicative limit value) |
| VLA-EC (OEL STEL) | 62 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 20 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 30 mg/m ³ |
| NGV (OEL TWA) [ppm] | 10 ppm |
| KTV (OEL STEL) | 62 mg/m ³ |
| KTV (OEL STEL) [ppm] | 20 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 31 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 10 ppm |
| WEL STEL (OEL STEL) | 46 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 15 ppm |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 30 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 10 ppm |
| Korttidsverdi (OEL STEL) | 45 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 20 ppm (value calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 30 mg/m ³ |
| MAK (OEL TWA) [2] | 10 ppm |
| KZGW (OEL STEL) | 60 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 20 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 10 ppm |
| Diphenyl oxide (101-84-8) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 7 mg/m ³ |
| IOEL TWA [ppm] | 1 ppm |
| IOEL STEL | 14 mg/m ³ |

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| Diphenyl oxide (101-84-8) | |
|--|------------------------------|
| IOEL STEL [ppm] | 2 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 7 mg/m ³ |
| MAK (OEL TWA) [ppm] | 1 ppm |
| MAK (OEL STEL) | 14 mg/m ³ |
| MAK (OEL STEL) [ppm] | 2 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ (vapor) |
| OEL TWA [ppm] | 1 ppm (vapor) |
| OEL STEL | 14 mg/m ³ (vapor) |
| OEL STEL [ppm] | 2 ppm (vapor) |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 14 mg/m ³ |
| OEL STEL [ppm] | 2 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 7 mg/m ³ |
| GVI (OEL TWA) [2] | 1 ppm |
| KGVI (OEL STEL) | 14 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 2 ppm |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 14 mg/m ³ |
| OEL STEL [ppm] | 2 ppm |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 5 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 7 mg/m ³ |
| OEL TWA [2] | 1 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 14 mg/m ³ |
| OEL STEL [ppm] | 2 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 7 mg/m ³ |
| HTP (OEL TWA) [2] | 1 ppm |

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| Diphenyl oxide (101-84-8) | |
|--|--|
| HTP (OEL STEL) | 14 mg/m ³ |
| HTP (OEL STEL) [ppm] | 2 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 7 mg/m ³ |
| VME (OEL TWA) [ppm] | 1 ppm |
| OEL chemical category | Risk of cutaneous absorption |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 7.1 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor) |
| AGW (OEL TWA) [2] | 1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor) |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 14 mg/m ³ |
| OEL STEL [ppm] | 200 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 14 mg/m ³ |
| OEL STEL [ppm] | 2 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 7 mg/m ³ |
| CK (OEL STEL) | 14 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 7 mg/m ³ (vapour) |
| OEL TWA [2] | 1 ppm (vapour) |
| OEL STEL | 14 mg/m ³ (vapour) |
| OEL STEL [ppm] | 2 ppm (vapour) |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 7 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 1 ppm |
| TPRV (OEL STEL) | 14 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 2 ppm |

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| Diphenyl oxide (101-84-8) | |
|---|---|
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 14 mg/m ³ |
| OEL STEL [ppm] | 2 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 14 mg/m ³ |
| OEL STEL [ppm] | 2 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 7 mg/m ³ |
| TGG-15min (OEL STEL) | 14 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 7 mg/m ³ |
| NDSCh (OEL STEL) | 14 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm (vapor) |
| OEL STEL | 14 mg/m ³ (indicative limit value) |
| OEL STEL [ppm] | 2 ppm (indicative limit value-vapor) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| OEL TWA [ppm] | 0.7 ppm |
| OEL STEL | 10 mg/m ³ |
| OEL STEL [ppm] | 1.4 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 7 mg/m ³ |
| NPHV (OEL TWA) [2] | 1 ppm |
| NPHV (OEL C) | 7.1 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 7 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 14 mg/m ³ |
| OEL STEL [ppm] | 2 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 7.1 mg/m ³ (vapor) |
| VLA-ED (OEL TWA) [2] | 1 ppm (vapor) |
| VLA-EC (OEL STEL) | 14.2 mg/m ³ (vapor) |

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| Diphenyl oxide (101-84-8) | |
|--|---|
| VLA-EC (OEL STEL) [ppm] | 2 ppm (vapor) |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 7 mg/m ³ |
| NGV (OEL TWA) [ppm] | 1 ppm |
| KTV (OEL STEL) | 14 mg/m ³ |
| KTV (OEL STEL) [ppm] | 2 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 7.1 mg/m ³ (vapour) |
| WEL TWA (OEL TWA) [2] | 1 ppm (vapour) |
| WEL STEL (OEL STEL) | 21.3 mg/m ³ (calculated-vapour) |
| WEL STEL (OEL STEL) [ppm] | 3 ppm (calculated-vapour) |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 7 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 1 ppm |
| Korttidsverdi (OEL STEL) | 14 mg/m ³ (value from the regulation) |
| Korttidsverdi (OEL STEL) [ppm] | 2 ppm (value from the regulation) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 7 mg/m ³ (aerosol, vapour) |
| MAK (OEL TWA) [2] | 1 ppm (aerosol, vapour) |
| KZGW (OEL STEL) | 14 mg/m ³ (aerosol, vapour) |
| KZGW (OEL STEL) [ppm] | 2 ppm (aerosol, vapour) |
| OEL chemical category | Category 2 developmental toxin, Category 2 reproductive toxin |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 1 ppm (vapor) |
| ACGIH OEL STEL [ppm] | 2 ppm (vapor fraction) |

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

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

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Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Colour | : Standard. |
| 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 | : > 93 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| 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

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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

Propanoic acid (79-09-4)

| | |
|-----------------------|----------------------------------|
| LD50 oral rat | 351 mg/kg |
| LD50 oral | 3455 mg/kg bodyweight |
| LD50 dermal rat | 3235 mg/kg |
| LD50 dermal | 3235 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 19.7 mg/l (Exposure time: 1 h) |

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-14 (104-67-6)

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

Aldehyde C-16 (77-83-8)

| | |
|-----------------|--------------|
| LD50 oral rat | 5470 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

Amyl salicylate (2050-08-0)

| | |
|---------------|------------|
| LD50 oral rat | 4100 mg/kg |
|---------------|------------|

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| Amyl salicylate (2050-08-0) | |
|--|-----------------------|
| LD50 oral | 2000 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/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 |
| Cyclamen aldehyde (103-95-7) | |
| LD50 oral rat | 3810 mg/kg |
| LD50 oral | 3810 mg/kg bodyweight |
| LD50 dermal rat | > 5000 mg/kg |
| 3,7-Dimethyl-1,6-nonadien-3-ol (10339-55-6) | |
| LD50 oral | 5000 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg |
| Geraniol (106-24-1) | |
| LD50 oral rat | 3600 mg/kg |
| LD50 oral | 3600 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg |
| 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 |
| Orange oil (8008-57-9) | |
| LD50 oral rat | 4400 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| Diphenyl oxide (101-84-8) | |
| LD50 oral rat | 2450 mg/kg |
| LD50 oral | 2830 mg/kg bodyweight |
| LD50 dermal rabbit | > 7940 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 1.5 mg/l/4h |
| Triplal (Vertocitral) (68039-49-6) | |
| LD50 oral | 3900 mg/kg bodyweight |
| Verdox (88-41-5) | |
| LD50 oral rat | 4600 mg/kg |
| LD50 oral | 4600 mg/kg bodyweight |

Skin corrosion/irritation

: Not classified

Additional information

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

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| | |
|-----------------------------------|--|
| Serious eye damage/irritation | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Additional information | : Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| STOT-single exposure | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

Propanoic acid (79-09-4)

| | |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

| | |
|---|--|
| STOT-repeated exposure | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

Propanoic acid (79-09-4)

| | |
|----------------------|--|
| LC50 - Fish [1] | > 1 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| LC50 - Fish [2] | 73 – 99.7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 72h - Algae [1] | 45.8 mg/l (Species: Desmodesmus subspicatus) |
| EC50 96h - Algae [1] | 43 mg/l (Species: Desmodesmus subspicatus) |

Allyl caproate (123-68-2)

| | |
|-----------------|---|
| LC50 - Fish [1] | 0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [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 |

Aldehyde C-16 (77-83-8)

| | |
|-----------------|---|
| LC50 - Fish [1] | 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) |
|-----------------|---|

3,7-Dimethyl-1,6-nonadien-3-ol (10339-55-6)

| | |
|-----------------|--|
| LC50 - Fish [1] | 24 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) |
|-----------------|--|

Geraniol (106-24-1)

| | |
|-----------------|---|
| LC50 - Fish [1] | 22 mg/l (Exposure time: 96 h - Species: Danio rerio [static]) |
|-----------------|---|

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12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative potential

Pomegranate Flowers AT 25% in DPG

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

Propanoic acid (79-09-4)

| | |
|---|-------------|
| Partition coefficient n-octanol/water (Log Pow) | 0.25 – 0.33 |
|---|-------------|

Diphenyl oxide (101-84-8)

| | |
|----------------|-----|
| BCF - Fish [1] | 470 |
|----------------|-----|

| | |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 4.2 |
|---|-----|

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

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1 UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : Not applicable

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IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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) | Propanoic acid ; Orange oil |
| 3(b) | Pomegranate Flowers AT 25% in DPG ; Propanoic acid ; Allyl caproate ; Aldehyde C-16 ; Amyl salicylate ; Citronellol Pure ; Cyclamen aldehyde ; 3,7-Dimethyl-1,6-nonadien-3-ol ; Floralozone ; Geraniol ; Hexyl cinnamic aldehyde ; Orange oil ; Triplal (Vertocitral) |

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| EU restriction list (REACH Annex XVII) | |
|--|--|
| Reference code | Applicable on |
| 3(c) | Pomegranate Flowers AT 25% in DPG ; Allyl caproate ; Aldehyde C-14 ; Aldehyde C-16 ; Amyl salicylate ; Cyclamen aldehyde ; Floralozone ; Hexyl cinnamic aldehyde ; Orange oil ; Triplal (Vertocitral) ; Verdox |
| 40. | Propanoic acid ; Orange oil |

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

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)

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 : Floralozone, Orange oil , Triplal (Vertocitral) are listed

SZW-lijst van mutagene stoffen : Floralozone, Orange oil , Triplal (Vertocitral) are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

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

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

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

| 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 |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| 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 Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| 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. |
| 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. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| 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. |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| 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, Respiratory tract irritation |

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.