

1. IDENTIFICATION

Product Name: Dark Chocolate & Forest Fruit Fragrance

Other Names:

Product Use Description: Fragrance for Consumer Product.

Contact Information:

| Organisation | Location | Telephone | Ask For |
|---------------------------------------|--|--------------|-------------|
| Adelaide Moulding and Candle Supplies | 7 Woodlands Terrace Edwardstown, South Australia, 5039 | 08 8294 0451 | SDS Officer |
| Poisons Information Centre | | 13 11 26 | |

2. HAZARD IDENTIFICATION

Classification of Substance of Mixture: Flammable Liquid, Hazard Category 4
Skin Corrosion / Irritation Category 3
Eye Damage / Irritation Category 2
Sensitization - Skin Category 1
Hazardous to the Aquatic Environment - Acute Hazard Category 1
Hazardous to the Aquatic Environment - Long-term Hazard Category 2
H227, Combustible liquid.
H316, Causes mild skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H400, Very toxic to aquatic life.
H411, Toxic to aquatic life with long lasting effects.

Hazard Pictogram(s):



Signal Word: WARNING

Hazard Statements (s): H227, Combustible liquid.
H316, Causes mild skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H400, Very toxic to aquatic life.
H411, Toxic to aquatic life with long lasting effects.

Precautionary Statements(s): P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P261, Avoid breathing vapour or dust.
P264, Wash hands and other contacted skin thoroughly after handling.
P272, Contaminated work clothing should not be allowed out of the workplace.
P273, Avoid release to the environment.
P280, Wear protective gloves/eye protection/face protection.
P302/352, IF ON SKIN: Wash with plenty of soap and water.
P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333/313, If skin irritation or rash occurs: Get medical advice/attention.
 P337/313, If eye irritation persists: Get medical advice/attention.
 P363, Wash contaminated clothing before reuse.
 P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
 P391, Collect spillage.
 P403/235, Store in a well-ventilated place. Keep cool.

Additional labelling: P501, Dispose of contents/container to approved disposal site, in accordance with local regulations. Contains Hexyl salicylate, 2-Hydroxy-3-methylcyclopent-2-enone, Piperonal, Isovaleraldehyde, citral, Cineole, (R)-p-mentha-1,8-diene; d-limonene, trans-Menthone. May produce an allergic reaction.

Other Hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures Contains:

| Name | CAS No | EC No | GHS Classification | Concentration |
|---|------------|-----------|--|---------------|
| Diethyl phthalate | 84-66-2 | 201-550-6 | Skin Irrit. 3-Aquatic Acute 3;H316-H402 | 20-<50% |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran | 1222-05-5 | 214-946-9 | Skin Irrit. 3-Aquatic Acute 1-Aquatic Chronic 1;H316-H410 | 10-<20% |
| 2-Ethylhexyl salicylate | 118-60-5 | 204-263-4 | Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1 | >=10- <20 |
| Ethyl maltol | 4940-11-8 | 225-582-5 | Acute Tox. 4;H302 | 5-<10% |
| Benzyl benzoate | 120-51-4 | 204-402-9 | Acute Tox. 4-Acute Tox. 5-Aquatic Acute 1-Aquatic Chronic 2;H302-H313-H400-H411 | 5-<10% |
| Methyl dihydrojasmonate | 24851-98-7 | 246-495-9 | Aquatic Acute 3;H402 | 5-<10% |
| 4-(p-Hydroxyphenyl)-2-butanone | 5471-51-2 | 226-806-4 | Aquatic Acute 3;H402 | 5-<10% |
| Ethyl vanillin | 121-32-4 | 204-464-7 | Acute Tox. 5-Eye Irrit. 2B-Aquatic Acute 3;H303-H320-H402 | 1-<5% |
| Benzyl alcohol | 100-51-6 | 202-859-9 | Acute Tox. 4-Acute Tox. 5-Eye Irrit. 2A; H302-H313-H319 | 1-<5% |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone | 54464-57-2 | 915-730-3 | Skin Irrit. 2-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 1;H315-H317-H401- H410 | 1-<5% |
| Methyl N-methylantranilate | 85-91-6 | 201-642-6 | Flam. Liq. 4-Acute Tox. 5;H227-H303 | 1-<5% |
| Hexyl salicylate | 6259-76-3 | 228-408-6 | Skin Irrit. 2-Skin Sens. 1-Aquatic Acute 1- Aquatic Chronic 1;H315-H317-H410 | 1-<5% |

| | | | | |
|-------------------------------------|-----------|-----------|--|-----------------|
| Vanillin | 121-33-5 | 204-465-2 | Eye Irrit. 2; H319 | >=1- <10 |
| 2-Ethyl-3-hydroxy-4-pyrone | 225-582-5 | 225-582-5 | Acute Tox. 4; H302 | >=1- <10 |
| 3-Ethoxy-4-hydroxybenzaldehyde | 121-32-4 | 204-464-7 | Eye Irrit. 2; H319 | >=1- <10 |
| Piperonal | 120-57-0 | 204-409-7 | Skin Sens. 1B; H317 | >=0,1- <1 |
| trans-Menthone | 89-80-5 | 201-941-1 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 | >=0,25- <1 |
| 2-Hydroxy-3-methylcyclopent-2-enone | 80-71-7 | 765-70-8 | Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 | >= 0,1 - < 1 |
| Isovaleraldehyde | 590-86-3 | 209-691-5 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 2; H411 | >= 0,1 - < 0,25 |
| citral | 5392-40-5 | 226-394-6 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 2; H411 | >= 0,1 - < 0,25 |
| (R)-p-mentha-1,8-diene; d-limonene | 5989-27-5 | 226-394-6 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 | >= 0,1 - < 1 |
| Cineole | 470-82-6 | 207-431-5 | Flam. Liq. 3; H226 Eye Irrit. 2; H319 Skin Sens. 1B; H317 | >= 0,1 - < 1 |
| Methyl anthranilate | 134-20-3 | 205-132-4 | Acute Tox. 5-Skin Irrit. 3-Eye Irrit. 2AAquatic Acute 3;H303-H316-H319- H402 | 1-<5% |

| | | | | |
|---|------------|-----------|---|---------|
| 2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde | 68039-49-6 | 939-604-2 | Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H227-H303-H315-H317-H411 | 1-<5% |
| Benzyl acetate | 140-11-4 | 205-399-7 | Acute Tox. 5-Skin Irrit. 3-Aquatic Acute 2- Aquatic Chronic 3;H303-H316-H401-H412 | 1-<5% |
| Butylated hydroxytoluene | 128-37-0 | 204-881-4 | Aquatic Acute 1-Aquatic Chronic 1;H410 | 1-<5% |
| Limonene | 5989-27-5 | 227-813-5 | Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1BAsp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-H410 | 0.1-<1% |
| alpha-iso-Methylionone | 127-51-5 | 204-846-3 | Skin Irrit. 2-Eye Irrit. 2B-Skin Sens. 1BAquatic Acute 2-Aquatic Chronic 2;H315-H317-H320-H411 | 0.1-<1% |
| Citronellol | 106-22-9 | 203-375-0 | Acute Tox. 5-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H303-H313-H315-H317-H319-H401 | 0.1-<1% |
| Geraniol | 106-24-1 | 203-377-1 | Acute Tox. 5-Skin Irrit. 2-Eye Dam. 1-Skin Sens. 1-Aquatic Acute 3;H303-H315-H317-H318-H402 | 0.1-<1% |
| Terpineol | 8000-41-7 | 232-268-1 | Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3;H227-H303- H315-H319-H402 | 0.1-<1% |
| alpha-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one | 43052-87-5 | 245-845-8 | Acute Tox. 4-Acute Tox. 5-Skin Sens. 1BAquatic Acute 2-Aquatic Chronic 2;H302-H313-H317-H411 | 0.1-<1% |
| Acetyl cedrene | 32388-55-9 | 251-020-3 | Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1;H316-H317-H410 | 0.1-<1% |
| Propionic acid | 79-09-4 | 201-176-3 | Flam. Liq. 3-Acute Tox. 5-Skin Corr. 1BEye Dam. 1;H226-H303-H314 | 0.1-<1% |
| beta-Pinene | 127-91-3 | 204-872-5 | Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1BAsp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-H410 | 0.1-<1% |
| Dimyrcetol | 18479-58-8 | 242-362-4 | Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3;H227-H303- H315-H319-H402 | 0.1-<1% |
| 1-(2,6,6-Trimethylcyclohexa-1,3-dienyl) -2-buten-1-one | 23696-85-7 | 245-833-2 | Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1AAquatic Acute 2-Aquatic Chronic 2;H313-H315-H317-H411 | 0.1-<1% |

Substances with Community workplace exposure limits, not listed above:

Adelaide Moulding and Candle Supplies
7 Woodlands Terrace
Edwardstown SA 5039
ABN: 85 765 232 986

Phone: +61 8 8294 0451
Email: admin@amcsupplies.com.au
Web: www.amcsupplies.com.au
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| Name | CAS No | EC No | Concentration |
|-----------------------------------|------------|-----------|---------------|
| Butylated hydroxytoluene | 128-37-0 | 204-881-4 | 1.00% |
| Diethyl phthalate | 84-66-2 | 201-550-6 | 27.80% |
| (2-Methoxymethyl ethoxy) propanol | 34590-94-8 | 252-104-2 | >= 0,1 - < 1 |
| Propionic acid | 79-09-4 | 201-176-3 | 0.20% |

4. FIRST AID MEASURES

| | |
|--|--|
| Ingestion: | Rinse mouth with water. Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist , call a physician. |
| Skin Contact: | Wash with plenty of soap and water. |
| Eye Contact: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Inhalation: | Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. |
| Most important symptoms and effects both acute and delayed: | Causes mild skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. |
| Indication of any immediate medical attention and special treatment needed: | The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. There is no specific antidote available. |

5. FIRE FIGHTING MEASURES

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|---------------------------------------|---|
| Suitable extinguishing media: | Carbon dioxide, Dry chemical, Foam. |
| Hazardous Combustion Products: | In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds. |
| Advice for Fire Fighters: | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Hazchem Code: | N/A |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------------------|---|
| Personal Precautions: | Avoid inhalation. Avoid contact with skin and eyes. |
| Protective Equipment: | Use personal protective equipment. |
| Emergency Procedures: | Evacuate personnel to safe areas. |
| Environmental Precautions: | Keep away from drains, surface and ground water, and soil. |
| Methods and Suitable materials | Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. |

for containment and cleaning up: Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation Do not eat, drink or smoke when using this product.

Conditions for Safe Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Specific end use(s): Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure limits:

| Ingredient | CAS | EC | Description | ppm | mg/m3 | Reference |
|--------------------------|----------|-----------|--|-----|-------|-----------|
| Butylated hydroxytoluene | 128-37-0 | 204-881-4 | Long-term exposure limit (8-hour TWA reference period) | - | - | - |
| | | | Short-term exposure limit (15-minute reference period) | - | - | - |
| Diethyl phthalate | 84-66-2 | 201-550-6 | Long-term exposure limit (8-hour TWA reference period) | - | - | - |
| | | | Short-term exposure limit (15-minute reference period) | - | - | - |
| Propionic acid | 79-09-4 | 201-176-3 | Long-term exposure limit (8-hour TWA reference period) | - | - | - |
| | | | Short-term exposure limit (15-minute reference period) | - | - | - |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance Name | End Use | Exposure routes | Potential health effects | Value |
|----------------|-----------|-----------------|----------------------------|-------------------|
| Ethyl butyrate | Workers | Inhalation | Long-term systemic effects | 220,2 mg/m3 |
| | Workers | Skin Contact | Long-term systemic effects | 31,2 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 33 mg/m3 |
| | Consumers | Skin Contact | Long-term systemic effects | 11,2 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 12,4 mg/kg bw/day |

Exposure Controls

Eye / Skin Protection: Wear protective gloves/eye protection/face protection.

Respiratory Protection: Ensure adequate and ongoing ventilation is maintained in order to prevent build up of excessive vapour and to ensure occupational exposure limits are adhered to. If appropriate, and depending on your patterns and volumes of use, the following engineering controls may be required as additional protective measures: a) Isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. b) Employ

the use of Personal protective equipment - an approved, properly fitted respirator with organic vapour cartridges or canisters and particulate filters. c) Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. d) Use closed systems for transferring and processing this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|
| Appearance: | Faint Yellow To Pale straw, Clear Liquid |
| Aroma/Odour: | Sweet Floral Raspberry Grape, Characteristic |
| Odour threshold | No data available |
| Melting point/freezing point | Not determined |
| Boiling point/boiling range | Not determined |
| Upper explosion limit / Upper flammability limit | Vapours may form explosive mixtures with air. |
| Lower explosion limit / Lower flammability limit | Vapours may form explosive mixtures with air. |
| Flash Point: | > 100 °C |
| Decomposition temperature | Not determined |
| pH: | Not applicable |
| Viscosity | |
| Viscosity, dynamic | Not determined |
| Viscosity, kinematic | Not determined |
| Solubility(ies) | |
| Water solubility | Immiscible |
| Partition coefficient: n-octanol/ water | Not applicable |
| Vapour pressure | < 1 kPa (50 °C) calculated |
| Relative density | Not determined |
| Bulk density | Not applicable |
| Relative vapour density | Not determined |

Other Information

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|---------------------------------------|--|
| Explosives | Due to its structural properties, the product is not classified as explosive |
| Oxidising properties | The substance or mixture is not classified as oxidizing. |
| Self-ignition | The substance or mixture is not classified as self-heating. |
| Evaporation rate | Not applicable |
| Molecular weight | Not applicable |
| pH: | Not determined |
| Initial boiling point/range: | Not determined |
| Flash Point (closed cup test): | 90.0 °C |
| Vapour pressure: | Not determined |
| Solubility(ies): | Not determined |
| Relative density: | 1.0679 - 1.0819 |
| Other information: | None available |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Reactivity Hazards: | Presents no significant reactivity hazard, by itself or in contact with water. |
| Chemical Stability: | Good stability under normal storage conditions. |
| Hazardous Reactions: | Stable under recommended storage conditions. Vapours may form explosive mixture with air. |
| Conditions to Avoid: | Avoid extreme heat. |
| Incompatibles: | Avoid contact with strong acids, alkalis or oxidising agents. |
| Hazardous Decomposition Products: | Not expected. |

11. TOXICOLOGICAL INFORMATION

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in UN GHS.

Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity: >5000
Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity: >5000
Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity: Not Available
Inhalation Route: Not Available

Acute toxicity Not classified based on available information.

Product:

Acute oral toxicity: Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method

Information on other hazards

Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Information about hazardous Ingredients in the Mixture:

| Ingredient | CAS | EC | LD50/ATE Oral | LD50/ATE Dermal | LC50/ATE Inhalation | LC50 Route |
|-----------------|-----------|-----------|---------------|-----------------|---------------------|----------------|
| Benzyl alcohol | 100-51-6 | 202-859-9 | 1620 | 2500 | Not Determined | Not Determined |
| Benzyl benzoate | 120-51-4 | 204-402-9 | 1500 | 4000 | Not Determined | Not Determined |
| Ethyl maltol | 4940-11-8 | 225-582-5 | 1200 | Not Determined | Not Determined | Not Determined |

12. ECOLOGICAL INFORMATION

Toxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Persistence and degradability: Not Available.

Bioaccumulative potential: Not Available.

Mobility in soil: Not Available.

PBT and vPvB Assessment: This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Other Adverse Effects: None

Persistence and degradability Components:

2-Ethylhexyl salicylate: Test Type: Closed bottle test, OECD 301-D, (BOD[28]/COD):
Biodegradability Result: Readily biodegradable.
Biodegradation: 89 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Vanillin: Test Type: Manometric respiration test
Biodegradability Result: Readily biodegradable.

| | |
|---|--|
| | Biodegradation: 90 % Exposure time: 28 d Method: OECD 301F GLP: yes |
| 2-Ethyl-3-hydroxy-4-pyrone: Biodegradability | Test Type: Sturm test, OECD 301-B, (CO2): Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 28 d Method: OECD 301B GLP: yes |
| 3-Ethoxy-4-hydroxybenzaldehyde: Biodegradability | Test Type: Manometric respiration test Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 28 d Method: OECD 301F GLP: yes |
| Hexyl salicylate: Biodegradability | Test Type: Manometric respiration test Result: Readily biodegradable. Biodegradation: 91 % Exposure time: 28 d Method: OECD 301F GLP: yes |
| Piperonal: Biodegradability | Test Type: Manometric respiration test Result: Readily biodegradable. Biodegradation: 82 % Exposure time: 28 d Method: OECD 301F GLP: yes |
| trans-Menthone: Biodegradability | Result: Not readily biodegradable. |
| 2-Hydroxy-3-methylcyclopent-2-enone: Biodegradability | Test Type: Manometric respiration test Result: Readily biodegradable. Biodegradation: 74 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes |
| Isovaleraldehyde: Biodegradability | Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 50 % Exposure time: 28 d Method: OECD 301D GLP: yes |
| citral: Biodegradability | Test Type: Manometric respiration test Result: Readily biodegradable. Biodegradation: > 90 % Exposure time: 28 d Method: OECD 301F GLP: yes |
| R)-p-mentha-1,8-diene; d-limonene: Biodegradability | Test Type: CO2 Evolution Test Result: Readily biodegradable. Biodegradation: 71 % Exposure time: 28 d Method: OECD 301B GLP: yes |
| Cineole: | Test Type: Manometric Respirometry Test |

Biodegradability Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301F G
LP: yes

(2-Methoxymethylethoxy)

propanol: Test Type: Manometric respiration test
Biodegradability Result: Readily biodegradable.
Biodegradation: 96 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Bioaccumulative potential Components:

2-Ethylhexyl salicylate: log Pow: 5,94 (25 °C)
Partition coefficient: Method: OECD Test Guideline 123
n-octanol/water pH: 7,8 GLP: yes

Vanillin:

Partition coefficient: log Pow: 1,17
n-octanol/water

2-Ethyl-3-hydroxy-4-pyrone:

Partition coefficient: log Pow: 2,9 (25 °C)
n-octanol/water Method: OECD Test Guideline 117
GLP: no

3-Ethoxy-4-hydroxybenzaldehyde:

Partition coefficient: log Pow: 1,58 (25 °C)
n-octanol/water Method: OECD Test Guideline 107
GLP: No information available.

Hexyl salicylate:

Partition coefficient: log Pow: 5,5 (30 °C)
n-octanol/water Method: OECD 117
GLP: yes

Piperonal:

Partition coefficient: log Pow: 1,1
n-octanol/water

trans-Menthone:

Partition coefficient: log Pow: 2,295 (25 °C)
n-octanol/water Method: OECD 117
GLP: No information available.

2-Hydroxy-

3-methylcyclopent-2-enone:

Partition coefficient: log Pow: 0,4 (25 °C)
n-octanol/water Method: OECD Test Guideline 117
GLP: no

Isovaleraldehyde:

Partition coefficient: log Pow: 1,5 (25 °C)
n-octanol/water pH: 7
Method: OECD 117
GLP: yes

citral:

Partition coefficient:
n-octanol/water
log Pow: 2,76 (25 °C)
Method: OECD Test Guideline 107
GLP: no

Cineole:

Partition coefficient:
n-octanol/water
log Pow: 3,4
Method: OECD 117
GLP: yes

(2-Methoxymethylethoxy)**propanol:**

Partition coefficient:
n-octanol/water
log Pow: 1,01

Mobility in soil Components:**3-Ethoxy-4-hydroxybenzaldehyde:**

Distribution among environmental
compartments
log Koc: 3,092
Method: OECD Test Guideline 106

trans-Menthone:

Distribution among environmental
compartments
Adsorption/Soil
Medium: Soil
log Koc: 1,805
Method: OECD 121

Cineole:

Distribution among environmental
Compartments
Adsorption/Soil
Medium: Sludge
log Koc: 2,33
Method: OECD 121

PBT and vPvB assessment:

Product: This substance/mixture contains no components considered to be either persistent bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Endocrine disrupting
properties:**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects**Product Components:**

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

2-Ethylhexyl salicylate:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic. Additional ecological information: to aquatic life with long lasting effects.

Vanillin:

Additional ecological information, An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Hexyl salicylate:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic. Additional ecological information: Very toxic to aquatic life with long lasting effects.

Piperonal:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

2-Hydroxy-**3-methylcyclopent-2-enone:**

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Isovaleraldehyde: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to Additional ecological information: aquatic life with long lasting effects.

citral: Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

UN Number: UN3082

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)

Transport Hazard Class(es): 9

Sub Risk: None

Environmental Hazards: This is an environmentally hazardous substance.

Special Precautions for user: None additional

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not Applicable

ADR

Packing Group: III
Classification code: M6
Hazard Identification No: 90
Labels: 9
Tunnel restriction: (-)

RID

Packing Group: III
Classification code: M6
Hazard Identification No: 90
Labels: 9

IMDG

Packing Group: III
Labels: 9
EmS code: F-A, S-F

IATA (Cargo)

Packing Instruction (cargo aircraft): 964
Packing Instruction (LQ): Y964
Packing Group: III
Labels: Miscellaneous

IATA_P (Passenger)

Packing Instruction (passenger aircraft): 964
Packing Instruction (LQ): Y964
Packing Group: III

Labels: Miscellaneous

Environmental Hazards: This is an environmentally hazardous substance.

Special Precautions for user: The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Maritime transport in bulk according to IMO instruments: Not Applicable for product as supplied.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations Specific for the substance or mixture

Water Hazard Class (WGK) 3

Chemical Safety Assessment A Chemical Safety Assessment has not been carried out for this product.

16. OTHER INFORMATION

Concentration % Limits: EH A1=93.59% EH A2=9.20% EH A3=0.90481361% EH C2=11.54% EH C3=1.15% EH C4=79.71% SCI 3=6.75% EDI 2A=78.68% SS 1=50.00%

Total Fractional Values: EH A1=1.07 EH A2=10.87 EH A3=110.52 EH C2=8.66 EH C3=86.69 EH C4=1.25 SCI 3=14.81 EDI 2A=1.27 SS 1=2.00

following entries should be considered:

Peppermint, ext. (Number on list 3) Hexyl salicylate (Number on list 3) Anisaldehyde (Number on list 3) 2-(4-Methylthiazol-5-yl)ethanol (Number on list 3) 2-Ethylhexyl salicylate (Number on list 3) Isovaleraldehyde (Number on list 40, 3) citral (Number on list 3) 2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol (Number on list 3) benzaldehyde (Number on list 3) Ethyl butyrate (Number on list 40, 3) (R)-p-mentha-1,8-diene; d-limonene (Number on list 40, 3) 2(3H)-Furanone, dihydro-5-octyl- (Number on list 3)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

| | | Quantity 1 | Quantity 2 |
|----|-----------------------|------------|------------|
| E2 | ENVIRONMENTAL HAZARDS | 200t | 500t |

Water hazard class (Germany): WGK 1 hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany): Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
portion Class 1: 0,03 %
Carcinogenic substances:
Not applicable
Mutagenic:

Not applicable
Toxic to reproduction:
Not applicable

Volatile organic compounds: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control). Volatile organic compounds (VOC) content: 3,03 %

Other regulations: Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Chemical safety assessment: A Chemical Safety Assessment is not required for this substance.

Key to revisions: Concentration % Limits
Information about hazardous ingredients in the mixture
SECTION 3: Composition/information on ingredients
Total Fractional Values

Key to abbreviations:

| Abbreviation | Meaning |
|-------------------|--|
| Acute Tox. 4 | Acute Toxicity - Oral Category 4 |
| Acute Tox. 5 | Acute Toxicity - Dermal Category 5 |
| Acute Tox. 5 | Acute Toxicity - Oral Category 5 |
| Aquatic Acute 1 | Hazardous to the Aquatic Environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the Aquatic Environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the Aquatic Environment - Acute Hazard Category 3 |
| Aquatic Chronic 1 | Hazardous to the Aquatic Environment - Long-term Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the Aquatic Environment - Long-term Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the Aquatic Environment - Long-term Hazard Category 3 |
| Asp. Tox 1N K | Aspiration Hazard Category 1 |
| Eye Dam. 1 | Eye Damage / Irritation Category 1 |
| Eye Irrit. 2A | Eye Damage / Irritation Category 2A |
| Eye Irrit. 2B | Eye Damage / Irritation Category 2B |
| Flam. Liq. 3 | Flammable Liquid, Hazard Category 3 |
| Flam. Liq. 4 | Flammable Liquid, Hazard Category 4 |
| H226 | Flammable liquid and vapour. |
| H227 | Combustible liquid. |
| H302 | Harmful if swallowed. |
| H303 | May be harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H313 | May be harmful in contact with skin. |
| H315 | Causes skin irritation. |

| | |
|--------------|--|
| H316 | Causes mild skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H320 | Causes eye irritation. |
| H400 | Very toxic to aquatic life. |
| H401 | Toxic to aquatic life. |
| H402 | Harmful 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. |
| P210 | Keep away from heat, sparks, open flames and hot surfaces. - No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe vapour or dust. |
| P261 | Avoid breathing vapour or dust. |
| P264 | Wash hands and other contacted skin 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/eye protection/face protection. |
| P301/310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P301/312 | IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell. |
| P301/330/331 | If swallowed: Rinse mouth. Do not induce vomiting. |
| P302/352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303/361/353 | IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304/340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |

| | |
|-------------------|--|
| P305/351/338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P312 | do. Continue rinsing. |
| P330 | Call a POISON CENTRE or doctor/physician if you feel unwell. |
| P331 | Rinse mouth. |
| P332/313 | Do not induce vomiting. |
| P333/313 | If skin irritation occurs: Get medical advice/attention. |
| P337/313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P370/378 | In case of fire: Use carbon dioxide, dry chemical, foam for extinction. |
| P391 | Collect spillage. |
| P403/235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to approved disposal site, in accordance with local regulations. |
| Skin Corr. 1B | Skin Corrosion / Irritation Category 1B |
| Skin Irrit. 2 | Skin Corrosion / Irritation Category 2 |
| Skin Irrit. 3 | Skin Corrosion / Irritation Category 3 |
| Skin Sens. 1 | Sensitization - Skin Category 1 |
| Skin Sens. 1A | Sensitization - Skin Category 1A |
| Skin Sens. 1B | Sensitization - Skin Category 1B |
| 91/322/EEC | Europe. Commission Directive 91/322/EEC on establishing indicative limit values |
| DE TRGS 900 | Germany. TRGS 900 - Occupational exposure limit values. |
| DFG | Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). |
| 91/322/EEC / TWA | Time weighted average |
| DE TRGS 900 / AGW | Exposure limit(s): |
| DFG / MAK | Maximum allowable concentration: |
| EU SCOEL / TWA | Time weighted average |

| Classification of mixture | | Classification Procedure |
|---------------------------|------|--------------------------|
| Aquatic Chronic 2 | H411 | Calculation method |

Further Information

The information in this safety data sheet is to the best of our knowledge true and accurate, but all data, instructions, and recommendations and/or suggestions are made without guarantee. The Material Safety Data Sheet is intended to provide information for a health and safety assessment of the material. This document is not intended for quality assurance purposes.