1. IDENTIFICATION

Product Name: Dark Chocolate Orange 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: Flammable Liquids (Category 4)
Skin Corrosion/Irritation (Category 2)
Acute Toxicity-ORAL (Category 5)
Skin Corrosion / Irritation Category 2
Sensitization – Skin Category 2
Aspiration Hazard Category 1
Hazardous to the Aquatic Environment - Acute Hazard (Category 1)
Hazardous to the Aquatic Environment – Long-term Hazard (Category 1)
Hazardous to the Aquatic Environment - Acute Hazard (Category 2)
Hazardous to the Aquatic Environment - Chronic Hazard (Category 3)
H227, Combustible liquid.
H303, May be harmful if swallowed.
H304, May be fatal if swallowed and enters airways.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H410, Very toxic to aquatic life with long lasting effects.
H411, Toxic to aquatic life with long lasting effects.

Hazard Pictogram(s):

Signal Word: DANGER

Hazard Statements (s): H227, Combustible liquid.
H303, May be harmful if swallowed.
H304, May be fatal if swallowed and enters airways.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H410, Very toxic to aquatic life with long lasting effects.
H411, Toxic to aquatic life with long lasting effects.

Precautionary Statements(s): P103, Read carefully and follow all the instructions
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.
P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
P312, Call a POISON CENTRE or doctor/physician if you feel unwell.
P331, Do not induce vomiting.
P333/313, If skin irritation or rash occurs: Get medical advice/attention.
P337/313, If eye irritation persists: Get medical advice/attention.
P362, Take off contaminated clothing and wash 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.

Additional labelling: 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, bioaccumula- tive 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 regu-lation (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

Substances:
Not applicable – Mixture

Mixtures:

CAS No	Description	GHS Classification	Concentration %
120-51-4	Benzyl benzoate	AAcute Tox. 4-Acute Tox. 5-Aquatic Acute 1-Aquatic Chronic 2;H302-H313-H400-H411TO 4 (H302), EH A2 (H401), C2 (H411)	20-<50%
5989-27-5	Limonene	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-H410	10-<20%
1222-05-5	1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran	Skin Irrit. 3-Aquatic Acute 1-Aquatic Chronic 1;H316-H410	10-<20%
18479-58-8	Dimyrcetol	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2AAquatic Acute 3;H227-H303-H315-H319-H402	5-<10%
5392-40-5	Citral	Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1BAquatic Acute 2;H313-H315-H317-H319-H401	5-<10%
54830-99-8, 2500-83-6, 5413-60-5	Acetoxydihydrodicyclopentadiene (Mixture of Isomers)	Acute Tox. 5-Skin Irrit. 3-Aquatic Acute 3;H303-H316-H402	5-<10%
63500-71-0	2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol	Eye Irrit. 2A;H319	1-<5%
78-70-6	Linalool	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H227-H303-H315-H317-H319-H402	1-<5%
103-95-7	2-Methyl-3-(p-isopropylphenyl) propionaldehyde	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1BAquatic Acute 2-Aquatic Chronic 3;H227-H303-H315-H317-H401-H412	1-<5%

68039-49-6	2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1BAquatic Acute 2-Aquatic Chronic 2;H227-H303-H315-H317-H411	1-<5%
88-41-5	2-tert-Butylcyclohexyl acetate	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 3-Aquatic Acute 2-Aquatic Chronic 2;H227-H303-H316-H411	1-<5%
112-31-2	Decanal	Flam. Liq. 4-Skin Irrit. 3-Eye Irrit. 2A-Aquatic Acute 2- Aquatic Chronic 3;H227-H316-H319-H401-H412	1-<5%
165184-98 5, 101-86-0	2-Hexyl-(E)-cinnamaldehyde	Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 2;H303-H316-H317-H400-H411	1-<5%
14901-07-6	beta-Ionone	Skin Irrit. 3-Aquatic Acute 2-Aquatic Chronic 2;H316-H411	1-<5%
24851-98-7	Methyl dihydrojasmonate	Aquatic Acute 3;H402	1-<5%
103-45-7	Phenethyl acetate	Acute Tox. 5-Eye Dam. 1;H303-H318	0.1-<1%
77-83-8	Ethyl methylphenylglycidate	Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2; H317-H411	0.1-<1%
67634-00-8	Allyl (3-methylbutoxy)acetate	Flam. Liq. 4-Acute Tox. 4-Skin Irrit. 2-Aquatic Acute 2; H227-H302-H315-H401	0.1-<1%
1365-19-1	Linalool oxide	Flam. Liq. 4-Acute Tox. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A;H227-H302-H313-H315-H319	0.1-<1%
123-35-3	Myrcene	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1;H226- H304-H315-H319	0.1-<1%
67674-46-8	6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3- Aquatic Chronic 3;H227-H315-H319-H412	0.1-<1%
118-60-5	2-Ethylhexyl salicylate	Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>=10- <20
121-33-5	Vanillin	Eye Irrit. 2; H319	>=1- <10
4940-11-8	2-Ethyl-3-hydroxy-4-pyrone	Acute Tox. 4; H302	>=1- <10
121-32-4	3-Ethoxy-4-hydroxybenzaldehyde	Eye Irrit. 2; H319	>=1- <10
6259-76-3	Hexyl salicylate	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>=0,25- <1
120-57-0	Piperonal	Skin Sens. 1B; H317	>=0,1- <1
89-80-5	trans-Menthone	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>=0,25- <1
80-71-7	2-Hydroxy-3-methylcyclopent-2-enone	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 0,1 - < 1
590-86-3	Isovaleraldehyde	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335	>= 0,1 - < 0,25

		(Respiratory system) Aquatic Chronic 2; H411	
5392-40-5	Citral	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
470-82-6	Cineole	Flam. Liq. 3; H226 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1

Substances with workplace exposure limits, not listed above:

Name	CAS	EC	%
(2-Methoxymethylethoxy) propanol	34590-94-8	252-104-2	>= 0,1 - < 1

4. FIRST AID MEASURES

Ingestion: IF SWALLOWED: Rinse mouth with water. Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, immediately call a POISON CENTER or doctor/physician.

Skin Contact: IF ON SKIN: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.

Eye Contact: IF IN EYES: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

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: May be harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. First aider needs to protect themselves.

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

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazard arising from the substance or mixture: In case of fire may be liberated: Carbon monoxide, Unidentified organic compounds.

Unsuitable extinguishing media: High volume water jet.

Hazardous Combustion Products: No hazardous combustion products are known

Advice for Fire Fighters: In the event of fire, wear self-contained breathing apparatus and do not breath fumes. Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective Equipment and emergency procedures: Avoid inhalation. Avoid contact with skin and eyes. Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions: Keep away from drains, surface and grounder water, and soil. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and Suitable materials for containment and cleaning up: Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

7. HANDLING AND STORAGE

Precautions for safe handing: 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. Avoid formation of aerosol. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Normal measures for preventive fire protection. General industrial hygiene practice.

Conditions for safe storage, including incompatibilities: Store in a well-ventilated place. Keep container tightly closed. To prevent congealing and denaturing it is recommended that goods are stores at temperatures between 15-30 °Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparkling tools. Take precautions measure against discharge. Containers with are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations/working materials must comply with the technological safety standards. No decomposition if stored and applied as directed.

Technical measures and storage conditions: Keep container closed when not in use.
Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Protect container from physical damage.

Specific end use(s): Fragrance mix

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure limits:

Ingredient	CAS	Value Type (Form of exposure)	Control Parameters	Basis
Oxydipropanol	25265-71-8	MAK (vapor and aerosol, inhalable fraction.)	100mg/m3	DFG
		AGW (inhalable fraction)	100mg/m3	DE TRGS 900
Further information: Sum of vapors and aerosols.				
Isovaleraldehyde	590-86-3	AGW	10pp, 39mg/m3	DE TRGS 900
(2-Methoxymeth-ylethoxy)propanol	34590-94-8	MAK (vapour)	50 ppm 310 mg/m3	DFG
		TWA	50 ppm 308 mg/m3	91/322/EEC
		TWA	50 ppm 308 mg/m3	EU SCOEL
		AGW (Vapor and aerosol)	50 ppm 310 mg/m3	DE TRGS 900
Further Information: Sum of vapours and aerosols.				
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5	MAK	5 ppm 28 mg/m3	DFG
		AGW	5 ppm 28 mg/m3	DE TRGS 900

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

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance Name	Environmental Compartment	Value
Ethyl butyrate	Fresh Water	0,131 mg/l
	Fresh water sediment	0,762 mg/kg dry weight (d.w.)
	Marine water	0,0131 mg/l
	Marine sediment	0,0762 mg/kg dry weight (d.w.)
	Sewage treatment plan	23,6 mg/l
	Soil	75,6 mg/kg dry weight (d.w.)

Exposure Controls

Respiratory Protection: Under normal conditions of use and where adequate ventilation is available to prevent build-up of excessive vapour, this material should not require special engineering control. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: 2) Increase ventilation of the area whit local exhaust ventilation. B) Personnel can use and approved, appropriately fitted respiratory with organic vapours cartridge or canister and particulate filters. C) Use closed system from transferring and processing this material.
No personal respiratory protective equipment normally re-quired.

Hand Protection: Remarks: As the product is a mixture of several substances, the dura-bility of the glove materials cannot be calculated in advance and has to be tested before use.

Eye/Skin Protection: Wear protective gloves/eyes protection/face protection. Safety Glasses and Work uniform or laboratory coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid, Clear Liquid
Colour: Colourless – Faint yellow, Pale yellow to yellow
Aroma/Odour: Mint, fruity, sweet, Characteristic
Odour threshold: Not determined
pH: Not determined
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 (closed cup test): > 100 °C
Decomposition temperature Not determined
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Upper/lower flammability or explosive limits: Product does not present an explosion hazard
Vapour pressure: < 1 kPa (50 °C) calculated
Vapour density: Not determined
Relative density: 0.9655 – 0.9795
Solubility (ies): Not determined
Water solubility Immiscible
Partition coefficient n-octano/water: Not determined
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: Not determined
Viscosity, dynamic Not determined
Viscosity, kinematic Not determined

Other Information
Explosive properties: 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.
Molecular weight Not applicable

10. STABILITY AND REACTIVITY

Reactivity Hazards: Present no significant reactivity hazard, by itself or in contact with water. No decomposition if stored and applied as directed.

Chemical Stability: Good stability under normal storage conditions. No decomposition if stored and applied as directed.

Hazardous Reactions: Not expected under normal conditions of use. Stable under recommended storage conditions. Vapours may form explosive mixture with air.

Conditions to Avoid: Avoid extreme heat.

Incompatibles: Avoid contact with string acids, alkalis, or oxidising agents.

Hazardous Decomposition Products: No hazardous decomposition products are known.

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 the UN GHS.

Acute Toxicity: Acute toxicity – Oral Category 5
Acute Toxicity Oral: 4389
Acute Toxicity Dermal: >5000
Acute Toxicity Inhalation: Not available
Skin corrosion/irritation : Skin Corrosion/Irritation Category 2
Serious eye damage/irritation: Eye Damage / Irritation Category 2
Respiratory or skin sensitisation: Sensitization – Skin Category 1
Germ cell mutagenicity: Based on available data the classification criteria are note met.
Carcinogenicity: Based on available data the classification criteria are note met.
Reproductive toxicity: Based on available data the classification criteria are note met.
STOT – single exposure: Based on available data the classification criteria are note met.
STOT- repeated exposure: Based on available data the classification criteria are note met.
Aspiration hazard: Aspiration Hazard Category 1

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	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde	68039-49-6	3900	Not available	Not available	Not available
2-Hexyl-(E)-cinnamaldehyde	165184-98-5, 101-86-0	3100	Not available	Not available	Not available
2-Methyl-3-(pisopropylphenyl) propionaldehyde	103-95-7	3810	Not available	Not available	Not available
2-tert-Butylcyclohexyl acetate	88-41-5	4600	Not available	Not available	Not available
Acetoxydihydrodicyclopentadiene (Mixture of Isomers)	54830-99-8, 2500-83-6, 5413-60-5	3050	Not available	Not available	Not available
Benzyl benzoate	120-51-4	1500	4000	Not available	Not available
Citral	5392-40-5	Not available	2250	Not available	Not available
Dimyrcetol	18479-58-8	3600	Not available	Not available	Not available
Linalool	78-70-6	2790	Not available	Not available	Not available

12. ECOLOGICAL INFORMATION

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

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:	Test Type: Sturm test, OECD 301-B, (CO2):
Biodegradability	Inoculum: activated sludge
	Result: Readily biodegradable.
	Biodegradation: 100 %
	Exposure time: 28 d
	Method: OECD 301B
	GLP: yes
3-Ethoxy-4- hydroxybenzaldehyde:	Test Type: Manometric respiration test
Biodegradability	Result: Readily biodegradable.
	Biodegradation: 84 %
	Exposure time: 28 d
	Method: OECD 301F
	GLP: yes
Hexyl salicylate:	Test Type: Manometric respiration test
Biodegradability	Result: Readily biodegradable.
	Biodegradation: 91 %
	Exposure time: 28 d
	Method: OECD 301F
	GLP: yes
Piperonal:	Test Type: Manometric respiration test
Biodegradability	Result: Readily biodegradable.
	Biodegradation: 82 %
	Exposure time: 28 d
	Method: OECD 301F
	GLP: yes
trans-Menthone:	Result: Not readily biodegradable.
Biodegradability	
2-Hydroxy-3- methylcyclopent-2-enone:	Test Type: Manometric respiration test
Biodegradability	Result: Readily biodegradable.
	Biodegradation: 74 %
	Exposure time: 28 d
	Method: OECD Test Guideline 301F
	GLP: yes

Isovaleraldehyde:	Inoculum: activated sludge
Biodegradability	Result: Not readily biodegradable. Biodegradation: 50 % Exposure time: 28 d Method: OECD 301D GLP: yes
citral:	Test Type: Manometric respiration test
Biodegradability	Result: Readily biodegradable. Biodegradation: > 90 % Exposure time: 28 d Method: OECD 301F GLP: yes
R)-p-mentha-1,8-diene; d-limonene:	Test Type: CO2 Evolution Test
Biodegradability	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: n-octanol/water	pH: 7,8 Method: OECD Test Guideline 123 GLP: yes
Vanillin:	
Partition coefficient: n-octanol/water	log Pow: 1,17
2-Ethyl-3-hydroxy-4-pyrone:	log Pow: 2,9 (25 °C)
Partition coefficient: n-octanol/water	Method: OECD Test Guideline 117 GLP: no
3-Ethoxy-4-hydroxybenzaldehyde:	log Pow: 1,58 (25 °C)
Partition coefficient: n-octanol/water	Method: OECD Test Guideline 107 GLP: No information available.
Hexyl salicylate:	log Pow: 5,5 (30 °C)
Partition coefficient: n-octanol/water	Method: OECD 117 GLP: yes
Piperonal:	
Partition coefficient: n-octanol/water	log Pow: 1,1
trans-Menthone:	log Pow: 2,295 (25 °C)
Partition coefficient: n-octanol/water	Method: OECD 117 GLP: No information available.

2-Hydroxy-3-methylcyclopent-2-enone:	log Pow: 0,4 (25 °C)
Partition coefficient: n-octanol/water	Method: OECD Test Guideline 117
	GLP: no
Isovaleraldehyde:	log Pow: 1,5 (25 °C)
Partition coefficient: n-octanol/water	pH: 7
	Method: OECD 117
	GLP: yes
citral:	log Pow: 2,76 (25 °C)
Partition coefficient: n-octanol/water	Method: OECD Test Guideline 107
	GLP: no
Cineole:	log Pow: 3,4
Partition coefficient: n-octanol/water	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:	Adsorption/Soil
Distribution among environmental compartments	Medium: Soil log Koc: 1,805 Method: OECD 121
Cineole:	Adsorption/Soil
Distribution among environmental Compartments	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:

Product: The substance/mixture does not contain components consid-ered 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:

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.

Components:

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:	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:
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.

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

Bioaccumulative potential: Not available

Mobility in soil: Not available

Other Adverse Effects: Not Available

13. DISPOSAL CONSIDERATIONS

Disposal: Dispose of according to 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

Waste treatment methods The product should not be allowed to enter drains, water courses or the soil. Send to a licensed waste management company.

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

14. TRANSPORT INFORMATION

	UN Number	UN Proper Shipping Name	Transport hazard class(es)	Sub Risk	Packing Group
UN Model Regulations	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Limonene, 1,3,4,6,7,8-Hexahydro- 4,6,6,7,8,8-hexamethylcyclopentagamma-2-benzopyran) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL SALICYLATE, 2-HYDROXY-BENZOIC ACID-HEXYLESTER)	9	-	III
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Limonene, 1,3,4,6,7,8-Hexahydro- 4,6,6,7,8,8 hexamethylcyclopentagamma- 2-benzopyran) MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL SALICYLATE, 2-HYDROXY-BENZOIC ACID-HEXYLESTER)	9	-	III
ADR, RID, AND	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Limonene, 1,3,4,6,7,8-Hexahydro- 4,6,6,7,8,8-hexamethylcyclopentagamma- 2-benzopyran) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL SALICYLATE, 2-HYDROXY-BENZOIC ACID-HEXYLESTER)	9	-	III
ICAO TI	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Limonene, 1,3,4,6,7,8-Hexahydro- 4,6,6,7,8,8-hexamethylcyclopentagamma-2-benzopyran) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL SALICYLATE, 2-HYDROXY-BENZOIC ACID-HEXYLESTER)	9	-	III
IATA (Cargo)	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL SALICYLATE, 2-HYDROXY-BENZOIC ACID-HEXYLESTER)	9	-	III
IATA_P (Passenger)	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL SALICYLATE, 2-HYDROXY-BENZOIC ACID-HEXYLESTER)	9	-	III

Environmental Hazards: This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.

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.

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

15. REGULATORY INFORMATION

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):

Conditions of restriction for the following entries should be considered:	Number on list 3 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.

16. OTHER INFORMATION

Concentration % Limits: EH A1=43.39% EH A2=4.25% EH A3=0.42401484% EH C1=78.04% EH C2=7.15% EH C3=0.71471046% EH C4=39.18% SCI 2=27.00% SCI 3=2.45% EDI 2A=34.48% SS 1=5.87% AH 1=57.79%

Total Fractional Values: EH A1=2.30 EH A2=23.51 EH A3=235.84 EH C1=1.28 EH C2=13.98 EH C3=139.92 EH C4=2.55 SCI 2=3.70 SCI 3=40.79 EDI 2A=2.90 SS 1=17. 04 AH 1=1.73

Abbreviations & Acronyms

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 1	Aspiration Hazard Category 1
Eye Dam. 1	Eye Damage / Irritation Category 1
Eye Irrit. 2A	Eye Damage / Irritation Category 2A
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.
H400	Very toxic 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.
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.
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.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.

P330	Rinse mouth.
P331	Do not induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P337/313	If eye irritation persists: 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 Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Irrit. 3	Skin Corrosion / Irritation Category 3
Skin Sens. 1B	Sensitization - Skin Category 1B

Further information

Classification of mixture		**Classification Procedure**
Aquatic Chronic 2	H411	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.