

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 2/19/2024 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Tobacco Vanilla Type Fragrance

Product code : FR2016-C

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

World of Aromas Inc

1035 N. Interstate 35E, STE 217 Carrollton, TX 75006 T 469-471-8934 https://worldofaromas.com/

1.4. Emergency telephone number

Emergency number : INFOTRAC: 1-800-535-5053

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

dire de diacomoundi		
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Skin sensitisation, Category 1		

H317

May cause an allergic skin reaction.

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

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P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	CAS-No.: 54464-57-2	10 – 15	Skin Irrit. 2, H315 Skin Sens. 1B, H317
Ethyl vanillin	CAS-No.: 121-32-4	1 – 5	Eye Irrit. 2, H319
3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol	CAS-No.: 3407-42-9	1 – 5	Eye Irrit. 2, H319
Cedarwood oil, Texas	CAS-No.: 68990-83-0	1 – 5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
coumarin	CAS-No.: 91-64-5	1 – 5	Skin Sens. 1B, H317
Styrax extract	CAS-No.: 8046-19-3	1 – 5	Skin Sens. 1, H317
piperonal	CAS-No.: 120-57-0	1 – 5	Skin Sens. 1B, H317
Labdanum oleoresin	CAS-No.: 90244-89-6	0.5 – 1	Skin Sens. 1, H317
Vetiver oil	CAS-No.: 8016-96-4	0.1 – 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is

expected to be an inhalation hazard.

Symptoms/effects after skin contact : None under normal conditions.

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Symptoms/effects after eye contact : None under normal conditions. Symptoms/effects after ingestion : None under normal conditions.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

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

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb

spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent

migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

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

product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep cool. Protect from sunlight.

Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Colour : Mixture contains one or more component(s) which have the following colour(s):

White to off-white yellow-green to dark brown Colourless Colourless to light yellow White On exposure to light: yellow dark yellow dark brown Colourless to white On exposure to light: turns

yellow On exposure to air: turns yellow light yellow

Odour : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour:

Characteristic odour Strong odour Pleasant odour Floral odour Almost odourless Phenol odour

Lemon odour Sweet odour

Odour threshold: No data availablepH: No data availableMelting point: Not applicableFreezing point: No data availableBoiling point: No data available

Flash point : > 200 °F Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) Not applicable. 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 Auto-ignition temperature No data available Decomposition temperature : No data available

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive limits : No data available
Explosive properties : No data available
Oxidising properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

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SECTION 11: Toxicological information

11.1. Information on toxicological effects		
Acute toxicity (dermal)	Not classified Not classified Not classified	
Ethyl vanillin (121-32-4)		
LD50 oral rat	> 3160 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 oral	3000 mg/kg bodyweight	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
LD50 dermal rabbit	> 7940 mg/kg Source: NLM	
ATE US (oral)	3000 mg/kg bodyweight	
Vetiver oil (8016-96-4)		
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:	
piperonal (120-57-0)		
LD50 oral rat	2700 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2350 - 3100	
LD50 oral	2700 mg/kg bodyweight	
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: other:IFF Protocol No. DLD (9/7/79) supplied by International Flavors & Fragrances, Inc., Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
ATE US (oral)	2700 mg/kg bodyweight	
coumarin (91-64-5)		
LD50 oral rat	680 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 oral	290 mg/kg bodyweight	
LD50 dermal rat	293 mg/kg bodyweight Animal: rat, Guideline: other:no data	
ATE US (oral)	500 mg/kg bodyweight	
ATE US (dermal)	293 mg/kg bodyweight	
3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)		
LD50 oral rat	5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
ATE US (oral)	5000 mg/kg bodyweight	
Skin corrosion/irritation :	Causes skin irritation.	
piperonal (120-57-0)		
pH	No data available in the literature	

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pH 7 (1.9 g/l, 20 °C) 3-(5.5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9) pH 5.34 Temp.: 28 °C Concentration: 1 vol% Serious eye damage/irritation : Not classified piperonal (120-57-0) pH No data available in the literature coumarin (91-64-5) pH 7 (1.9 g/l, 20 °C) 3-(5.5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9) pH 5.34 Temp.: 28 °C Concentration: 1 vol% Respiratory or skin sensitisation : May cause an allergic skin reaction. Germ cell mutagenicity : Not classified coumarin (91-64-5) IARC group 3 - Not classified coumarin (91-64-5) IARC group 3 - Not classified STOT-single exposure : Not classified STOT-single exposure : Not classified STOT-single exposure : Not classified Ethyl vanillin (121-32-4) NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat				
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IARC group 3 - Not classifiable Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Ethyl vanillin (121-32-4) NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat piperonal (120-57-0) NOAEL (oral, rat, 90 days) 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: coumarin (91-64-5) NOAEL (subchronic, oral, animal/female, 90 days) > 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female Aspiration hazard : Not classified Viscosity, kinematic : Not applicable Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable Coumarin (91-64-5) Viscosity, kinematic Not applicable Coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	Carcinogenicity :	Not classified		
Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not exposure :	coumarin (91-64-5)			
STOT-single exposure : Not classified STOT-repeated exposure : Not classified Ethyl vanillin (121-32-4) NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat piperonal (120-57-0) NOAEL (oral, rat, 90 days) 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: coumarin (91-64-5) NOAEL (subchronic, oral, animal/female, 90 days) > 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female Aspiration hazard : Not classified Viscosity, kinematic : No data available Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2,2,1]hept-2-yl)cyclobexan-1-ol (3407-42-9)	IARC group	3 - Not classifiable		
STOT-repeated exposure : Not classified Ethyl vanillin (121-32-4) NOAEL (oral, rat, 90 days)		Not classified		
Ethyl vanillin (121-32-4) NOAEL (oral, rat, 90 days) NOAEL (subchronic, oral, animal/female, 90 days) Aspiration hazard Viscosity, kinematic Not ata available Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable Diperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable Solidation Not applicable Outperonal (120-57-0) Viscosity, kinematic Not applicable Not applicable Outperonal (120-57-0) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2,2,1]hept-2-yl)cyclohexan-1-ol (3407-42-9)				
NOAEL (oral, rat, 90 days) piperonal (120-57-0) NOAEL (oral, rat, 90 days) 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: coumarin (91-64-5) NOAEL (subchronic, oral, animal/female, 90 days) > 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female Aspiration hazard Viscosity, kinematic : Not classified Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	STOT-repeated exposure :	Not classified		
piperonal (120-57-0) NOAEL (oral, rat, 90 days) 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: coumarin (91-64-5) NOAEL (subchronic, oral, animal/female, 90 days) > 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female Aspiration hazard Viscosity, kinematic : Not classified viscosity, kinematic in Not applicable Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	Ethyl vanillin (121-32-4)			
NOAEL (oral, rat, 90 days) 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: coumarin (91-64-5) NOAEL (subchronic, oral, animal/female, 90 days) > 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female Aspiration hazard Viscosity, kinematic In Not classified Not applicable Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat		
Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: coumarin (91-64-5) NOAEL (subchronic, oral, animal/female, 90 days) > 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female Aspiration hazard : Not classified Viscosity, kinematic : No data available Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	piperonal (120-57-0)			
NOAEL (subchronic, oral, animal/female, 90 days) > 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female Aspiration hazard : Not classified Viscosity, kinematic : No data available Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	NOAEL (oral, rat, 90 days)			
Aspiration hazard Viscosity, kinematic Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	coumarin (91-64-5)			
Viscosity, kinematic : No data available Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	NOAEL (subchronic, oral, animal/female, 90 days)	> 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female		
Ethyl vanillin (121-32-4) Viscosity, kinematic Not applicable Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	Aspiration hazard :	Not classified		
Viscosity, kinematic Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	Viscosity, kinematic :	No data available		
Labdanum oleoresin (90244-89-6) Viscosity, kinematic Not applicable piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	Ethyl vanillin (121-32-4)	Ethyl vanillin (121-32-4)		
Viscosity, kinematic piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	Viscosity, kinematic	Not applicable		
piperonal (120-57-0) Viscosity, kinematic Not applicable coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	Labdanum oleoresin (90244-89-6)			
Viscosity, kinematic Coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	Viscosity, kinematic	Not applicable		
coumarin (91-64-5) Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	piperonal (120-57-0)			
Viscosity, kinematic Not applicable (solid) 3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	Viscosity, kinematic	Not applicable		
3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)	coumarin (91-64-5)			
	Viscosity, kinematic	Not applicable (solid)		
Viscosity, kinematic 2698.234 mm²/s	3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)			
	Viscosity, kinematic	2698.234 mm²/s		

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Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is

expected to be an inhalation hazard.

Symptoms/effects after skin contact : None under normal conditions. Symptoms/effects after eye contact : None under normal conditions. Symptoms/effects after ingestion : None under normal conditions.

SECTION 12: Ecological information

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
87.6 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)
120 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
206.454 mg/l Source: ECOSAR
120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)
10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
5.9 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
yl-2-naphthalenyl)ethanone (54464-57-2)
0.258 mg/l Source: ECOSAR
0.487 mg/l Source: ECOSAR
0.554 mg/l Source: Ecological Structure Activity Relationships
0.95 mg/l Test organisms (species): Daphnia magna
0.654 mg/l Source: Ecological Structure Activity Relationships
2.5 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value, GLP)
52 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
31 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
6.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
119.133 mg/l Source: ECOSAR
31 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

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coumarin (91-64-5)		
LC50 - Fish [1]	2.94 mg/l (96 h, Pimephales promelas, QSAR, Lethal)	
EC50 - Crustacea [1]	24.3 – 36.9 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
LC50 - Fish [2]	1324 mg/l Test organisms (species):	
EC50 96h - Algae [1]	1.452 mg/l (Algae, QSAR)	
NOEC (chronic)	0.5 mg/l Test organisms (species): Duration: '21 d'	
NOEC chronic fish	0.191 mg/l Test organisms (species): Duration: '30 d'	
3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)		
EC50 - Other aquatic organisms [1]	31 mg/l Test organisms (species):	
EC50 72h - Algae [1]	81 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 96h - Algae [1]	11.773 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	

12.2. Persistence and degradability

Tobacco Vanilla Type Fragrance		
Rapidly degradable		
Ethyl vanillin (121-32-4)		
Readily biodegradable in water.		
1.81 g O /g substance		
0.529 (5 day(s), Literature study)		
vl-2-naphthalenyl)ethanone (54464-57-2)		
Rapidly degradable		
Rapidly degradable		
Rapidly degradable		
Rapidly degradable		
piperonal (120-57-0)		
Biodegradable in the soil,Readily biodegradable in water.		
1.71 g O /g substance		
coumarin (91-64-5)		
Readily biodegradable in water.		
3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)		
Rapidly degradable		

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Cedarwood oil, Texas (68990-83-0)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Ethyl vanillin (121-32-4)		
Partition coefficient n-octanol/water (Log Pow)	1.58 (Experimental value, Equivalent or similar to OECD 107, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)		
Partition coefficient n-octanol/water (Log Pow)	5.18 Source: Episuite	
Vetiver oil (8016-96-4)		
Partition coefficient n-octanol/water (Log Pow)	4.93 Source: Quantitative Structure Activity Relation	
piperonal (120-57-0)		
Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 35 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
coumarin (91-64-5)		
Partition coefficient n-octanol/water (Log Pow)	1.51 (Estimated value, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

12.4. Mobility in soil

Ethyl vanillin (121-32-4)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.092 (log Koc, Equivalent or similar to OECD 106, Experimental value)	
Ecology - soil	Low potential for mobility in soil.	
Vetiver oil (8016-96-4)		
Mobility in soil	3.848 Source: Quantitative Structure Activity Relation	
piperonal (120-57-0)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.1 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	
coumarin (91-64-5)		
Mobility in soil	140 Source: National Library of Medicine/Hazardous Substances Data Bank	
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.63 (log Koc, QSAR)	
Ecology - soil	Highly mobile in soil.	

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.

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

Sewage disposal recommendations : Disposal must be done according to official regulations. Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

SECTION 14: Transport information

14.1. UN number

DOT NA No : Not applicable UN-No. (TDG) : Not applicable UN-No. (IMDG) : Not applicable UN-No. (IATA) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT

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

TDG

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

IMDG

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

IATA

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

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

Not applicable

TDG

Not applicable

IMDG

Not applicable

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IATA

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Vetiver oil	CAS-No. 8016-96-4	0.1 – 0.5%
Labdanum oleoresin	CAS-No. 90244-89-6	0.5 – 1%
Cedarwood oil, Texas	CAS-No. 68990-83-0	1 – 5%

15.2. International regulations

CANADA

Ethyl vanillin (121-32-4)

Listed on the Canadian DSL (Domestic Substances List)

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)

Listed on the Canadian DSL (Domestic Substances List)

Styrax extract (8046-19-3)

Listed on the Canadian DSL (Domestic Substances List)

Vetiver oil (8016-96-4)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Labdanum oleoresin (90244-89-6)

Listed on the Canadian DSL (Domestic Substances List)

piperonal (120-57-0)

Listed on the Canadian DSL (Domestic Substances List)

coumarin (91-64-5)

Listed on the Canadian DSL (Domestic Substances List)

3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol (3407-42-9)

Listed on the Canadian DSL (Domestic Substances List)

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Cedarwood oil, Texas (68990-83-0)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-statements	
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.

Safety Data Sheet (SDS), USA

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.