

Safety Data Sheet

Air Flor Vaniglia

Safety Data Sheet dated 9/5/2022, version 1

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

1.1. Product identifier

Mixture identification:

Trade name:	Air Flor Vaniglia
Trade code:	ZSDS97591
SAP Code:	97591

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

Liquid deodorant

Uses advised against:

Anything not relevant to the recommended uses.

1.3. Details of the supplier of the safety data sheet

Company:

ZOBELE BULGARIA, EOOD

Rakovski Municipality Industrial zone, Warehouse 2

4142 Stryama (Bulgaria)

Phone n.+39 0461/303700 (Working hours)

Competent person responsible for the safety data sheet:

msds.it@zobele.com

1.4. Emergency telephone number

IR: ZOBELE HOLDING S.p.A - Tel. +39 0461/303700

MT: Maltese emergency number: 112 (24/7)

UK: ZOBELE HOLDING S.p.A - Tel. +39 0461/303700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Aquatic Chronic 3, H412 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P501 Dispose of contents and container in accordance with local regulation.

Special Provisions:

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EUH208 Contains 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one. May produce an allergic reaction.
 EUH208 Contains citronellol. May produce an allergic reaction.
 EUH208 Contains coumarin. May produce an allergic reaction.
 EUH208 Contains 3,7-dimethyl-3-octanol. May produce an allergic reaction.
 EUH208 Contains (4-tert-butylcyclohexyl) acetate. May produce an allergic reaction.
 EUH208 Contains 3,7-dimethylnona-1,6-dien-3-ol. May produce an allergic reaction.
 EUH208 Contains linalool. May produce an allergic reaction.
 EUH208 Contains reaction Mass of Cis-4-(isopropyl) cyclohexanemethanol and Trans-4-(isopropyl) cyclohexanemethanol. May produce an allergic reaction.
 Special provisions according to Annex XVII of REACH and subsequent amendments:
 None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 25\%$ - $< 30\%$	Benzyl acetate	CAS: 140-11-4 EC: 205-399-7 REACH No.: 01-21196382 72-42-XXXX	Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
$\geq 1\%$ - $< 3\%$	cis-2-Pentylcyclopentanol	CAS: 157357-30-7 EC: 812-739-3 REACH No.: 01-21201214 30-77-XXXX	Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.
$\geq 1\%$ - $< 3\%$	vanillin	CAS: 121-33-5 EC: 204-465-2 REACH No.: 01-21195160 40-60-XXXX	Eye Irrit. 2 H319 Causes serious eye irritation.
$\geq 0,5\%$ - $< 1\%$	linalool	Index number: 603-235-00-2 CAS: 78-70-6 EC: 201-134-4 REACH No.: 01-21194740 16-42-XXXX	Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1B H317 May cause an allergic skin reaction.
$\geq 0,5\%$ - $< 1\%$	citronellol	CAS: 106-22-9 EC: 203-375-0 REACH No.: 01-21194539 95-23-XXXX	Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1B H317 May cause an allergic skin reaction.

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			Eye Irrit. 2 H319 Causes serious eye irritation.
>= 0,5% - < 1%	1-(1,2,3,4,5,6,7,8-octa hydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	CAS: 54464-57-2 EC: 259-174-3	Skin Irrit. 2 H315 Causes skin irritation. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. Skin Sens. 1 H317 May cause an allergic skin reaction.
>= 0,5% - < 1%	coumarin	CAS: 91-64-5 EC: 202-086-7	Acute Tox. 4 H302 Harmful if swallowed. Skin Sens. 1 H317 May cause an allergic skin reaction.
>= 0,5% - < 1%	3,7-dimethyl-3-octanol	CAS: 78-69-3 EC: 201-133-9 REACH No.: 01-21194547 88-21-XXXX	Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1B H317 May cause an allergic skin reaction. Eye Irrit. 2 H319 Causes serious eye irritation.
>= 0,5% - < 1%	(4-tert-butylcyclohexyl) acetate	CAS: 32210-23-4 EC: 250-954-9 REACH No.: 01-21199762 86-24-XXXX	Skin Sens. 1B H317 May cause an allergic skin reaction.
>= 0,5% - < 1%	3,7-dimethylnona-1,6-dien-3-ol	CAS: 10339-55-6 EC: 233-732-6	Skin Sens. 1B H317 May cause an allergic skin reaction. Eye Irrit. 2 H319 Causes serious eye irritation.
>= 0,5% - < 1%	reaction Mass of Cis-4-(isopropyl) cyclohexanemethanol and Trans-4-(isopropyl) cyclohexanemethanol	CAS: 5502-75-0 EC: 939-719-8 REACH No.: 01-21199835 32-32-XXXX	Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1B H317 May cause an allergic skin reaction.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

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Treatment:
Treat symptomatically.

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
Carbon dioxide (CO₂).
 - Extinguishing media which must not be used for safety reasons:
None in particular.
- 5.2. Special hazards arising from the substance or mixture
 - Burning produces heavy smoke.
 - Do not inhale explosion and combustion gases.
- 5.3. Advice for firefighters
 - Use fire fighter's clothing conforming to European standard EN469.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - For non emergency personnel:
 - See protective measures under point 7 and 8.
 - Wear breathing apparatus if exposed to vapours/dusts/aerosols.
 - Remove persons to safety.
 - For emergency responders:
 - Wear personal protection equipment.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
 - Retain contaminated washing water and dispose it.
- 6.3. Methods and material for containment and cleaning up
 - For cleaning up:
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Don't use empty container before they have been cleaned.
 - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 - See also section 8 for recommended protective equipment.
 - Advice on general occupational hygiene:
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Keep container tightly closed. Keep container dry. Keep away from heat. Protect from direct sunlight.
 - Keep in the original container well closed. Do not store in open or unlabelled containers.

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Keep containers in a vertical and safe position avoiding the possibility of falls or bumps.
Store in a cool place away from any source of heat and direct exposure to sunlight.
Keep in the original container well closed. Do not store in open or unlabelled containers.
Keep containers in a vertical and safe position avoiding the possibility of falls or bumps. Keep away from naked flames, sparks and heat sources. Avoid exposure to direct sunlight.
Do not contaminate food, beverages or containers intended to contain them during use.
Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Benzyl acetate - CAS: 140-11-4

ACGIH - TWA(8h): 10 ppm - Notes: A4 - URT irr

VLEP - TWA(8h): 62 mg/m³, 10 ppm - Notes: Spain

National - TWA(8h): 62 mg/m³, 10 ppm - Notes: Belgium

National - TWA(8h): 61 mg/m³, 10 ppm - STEL: 122 mg/m³, 20 ppm - Notes: Denmark

National - TWA(8h): 50 mg/m³, 8 ppm - STEL(15min): 80 mg/m³, 13 ppm - Notes: Romania

Ontario - TWA: 10 ppm - Notes: Canada

DNEL Exposure Limit Values

Benzyl acetate - CAS: 140-11-4

Worker Professional: 9 mg/m³ - Consumer: 2.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 2.5 mg/kg - Consumer: 1.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

linalool - CAS: 78-70-6

Worker Professional: 2.8 mg/m³ - Consumer: 0.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 16.5 mg/m³ - Consumer: 4.1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 2.5 mg/kg - Consumer: 1.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 3 mg/cm² - Consumer: 1.5 mg/m³ - Exposure: Human Dermal - Frequency: Long Term, local effects

Worker Professional: 5 mg/kg - Consumer: 2.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 3 mg/cm² - Consumer: 1.5 mg/cm² - Exposure: Human Dermal - Frequency: Short Term, local effects

Consumer: 0.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

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Consumer: 1.2 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

citronellol - CAS: 106-22-9

Worker Professional: 161.6 mg/m³ - Consumer: 47.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 10 mg/kg - Consumer: 10 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 10 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 327 mg/kg - Consumer: 196.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 2950 mg/kg - Consumer: 2950 mg/kg - Exposure: Human Dermal - Frequency: Short Term, local effects

Consumer: 13.8 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

coumarin - CAS: 91-64-5

Worker Professional: 6.78 mg/m³ - Consumer: 1.69 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 0.79 mg/kg - Consumer: 0.39 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.39 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

3,7-dimethyl-3-octanol - CAS: 78-69-3

Worker Professional: 2.75 mg/m³ - Consumer: 0.68 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 2.5 mg/kg - Consumer: 1.25 mg/m³ - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 190 N.A. - Consumer: 190 N.A. - Exposure: Human Dermal - Frequency: Long Term, local effects

Consumer: 0.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

3,7-dimethylnona-1,6-dien-3-ol - CAS: 10339-55-6

Worker Professional: 3 mg/m³ - Consumer: 0.74 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 18 mg/m³ - Consumer: 4.4 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)

Worker Professional: 2.7 mg/kg - Consumer: 1.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 5.5 mg/kg - Consumer: 2.7 mg/kg - Exposure: Human Dermal - Frequency: Short Term (acute)

Worker Professional: 16 mg/cm² - Consumer: 16 mg/cm² - Exposure: Human Dermal - Frequency: Long Term, local effects

Worker Professional: 16 mg/cm² - Consumer: 16 mg/cm² - Exposure: Human Dermal - Frequency: Short Term (acute)

Consumer: 0.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 1.3 mg/kg - Exposure: Human Oral - Frequency: Short Term (acute)

reaction Mass of Cis-4-(isopropyl) cyclohexanemethanol and Trans-4-(isopropyl) cyclohexanemethanol - CAS: 5502-75-0

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Worker Professional: 6.63 mg/m³ - Consumer: 1.63 mg/m³ - Exposure: Human
Inhalation - Frequency: Long Term, systemic effects - Endpoint: repeated dose toxicity
Worker Professional: 1.88 mg/kg - Consumer: 0.94 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects - Endpoint: repeated dose toxicity
Consumer: 0.94 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
effects - Endpoint: repeated dose toxicity

PNEC Exposure Limit Values

Benzyl acetate - CAS: 140-11-4

Target: Fresh Water - Value: 0.018 mg/l

Target: Marine water - Value: 0.002 mg/l

Target: Freshwater sediments - Value: 0.526 mg/kg

Target: Marine water sediments - Value: 0.053 mg/kg

Target: STP - Value: 8.55 mg/l

Target: Soil (agricultural) - Value: 0.094 mg/kg

cis-2- Pentylcyclopentanol - CAS: 157357-30-7

Target: Fresh Water - Value: 13 µg/L

Target: Marine water - Value: 1.3 µg/L

Target: STP - Value: 2 mg/l

Target: Freshwater sediments - Value: 0.296 mg/kg

Target: Marine water sediments - Value: 0.03 mg/kg

Target: Soil (agricultural) - Value: 0.051 mg/kg

vanillin - CAS: 121-33-5

Target: Fresh Water - Value: 0.118 mg/l

Target: Marine water - Value: 0.012 mg/l

Target: STP - Value: 10 mg/l

Target: Freshwater sediments - Value: 58.22 mg/kg

Target: Marine water sediments - Value: 5.822 mg/kg

Target: Soil (agricultural) - Value: 11.54 mg/kg

linalool - CAS: 78-70-6

Target: Fresh Water - Value: 0.2 mg/l

Target: Marine water - Value: 0.02 mg/l

Target: STP - Value: 10 mg/l

Target: Freshwater sediments - Value: 2.22 mg/kg

Target: Marine water sediments - Value: 0.222 mg/kg

Target: Soil (agricultural) - Value: 0.327 mg/kg

Target: Food chain - Value: 7.8 mg/kg - Notes: predators

Target: Intermittent releases - Value: 2 mg/l - Notes: freshwater

citronellol - CAS: 106-22-9

Target: Fresh Water - Value: 0.002 mg/l

Target: Marine water - Value: 0 mg/l

Target: STP - Value: 580 mg/l

Target: Freshwater sediments - Value: 0.026 mg/kg

Target: Marine water sediments - Value: 0.003 mg/kg

Target: Soil (agricultural) - Value: 0.004 mg/kg

coumarin - CAS: 91-64-5

Target: Fresh Water - Value: 19 µg/L

Target: Marine water - Value: 1.9 µg/L

Target: STP - Value: 6.4 mg/l

Target: Freshwater sediments - Value: 0.15 mg/kg

Target: Marine water sediments - Value: 0.015 mg/kg

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Target: Soil (agricultural) - Value: 0.018 mg/kg
Target: Food chain - Value: 30.7 mg/kg - Notes: predators
3,7-dimethyl-3-octanol - CAS: 78-69-3
Target: Fresh Water - Value: 0.009 mg/l
Target: Marine water - Value: 0.001 mg/l
Target: STP - Value: 450 mg/l
Target: Freshwater sediments - Value: 0.082 mg/kg
Target: Marine water sediments - Value: 0.008 mg/kg
Target: Soil (agricultural) - Value: 0.011 mg/kg
(4-tert-butylcyclohexyl) acetate - CAS: 32210-23-4
Target: Fresh Water - Value: 5.3 µg/L
Target: Marine water - Value: 0.53 µg/L
Target: STP - Value: 12.2 mg/l
Target: Freshwater sediments - Value: 2.01 mg/kg
Target: Marine water sediments - Value: 0.21 mg/kg
Target: Soil (agricultural) - Value: 0.42 mg/kg
Target: Food chain - Value: 66.67 mg/kg
3,7-dimethylnona-1,6-dien-3-ol - CAS: 10339-55-6
Target: Fresh Water - Value: 0.023 mg/l
Target: Marine water - Value: 0.002 mg/l
Target: STP - Value: 10 mg/l
Target: Freshwater sediments - Value: 0.223 mg/kg
Target: Marine water sediments - Value: 0.022 mg/kg
Target: Soil (agricultural) - Value: 0.031 mg/kg
Target: Food chain - Value: 8.53 mg/kg
reaction Mass of Cis-4-(isopropyl) cyclohexanemethanol and Trans-4-(isopropyl) cyclohexanemethanol - CAS: 5502-75-0
Target: Fresh Water - Value: 4.4 µg/L - Notes: Assessment factor: 1 000
Target: Marine water - Value: 0.44 µg/L - Notes: Assessment factor: 10 000
Target: STP - Value: 1.9 mg/l - Notes: Assessment factor: 100
Target: Freshwater sediments - Value: 266 N.A.
Target: Marine water sediments - Value: 26.6 N.A.
Target: Soil (agricultural) - Value: 51 N.A.
Target: Food chain - Value: 41.78 mg/kg - Notes: Assessment factor: 90

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Chemical protection clothing.

Protection for hands:

Gloves (EN 374)

FKM (fluoro rubber).

Respiratory protection:

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator Type P filter material., European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations. For high airborne concentrations, use an approved supplied-air

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respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Thermal Hazards:

None

Environmental exposure controls:

Emissions from production processes, including those from ventilation should be checked for the purposes of compliance with the regulations environmental protection. Product residues should not be discharged without control in wastewater or water courses.

Appropriate engineering controls:

Operate in a well-ventilated place.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Light yellow	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	> 40°C	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	92	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	<= 14 mm ² /sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.04 - 1.05	--	--
Relative vapour density:	N.A.	--	--

Particle characteristics:

Particle size:	N.A.	--	--
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9.2. Other information

No other relevant information

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SECTION 10: Stability and reactivity

- 10.1. Reactivity
In contact with strong oxidizing agents, reducing agents, strong acids or bases, are possible exothermic reactions.
- 10.2. Chemical stability
No dangerous reaction if manipulated and stored according to regulations.
Stable under normal conditions.
- 10.3. Possibility of hazardous reactions
Exothermic reactions are possible in contact with strong oxidizing agents, reducing agents, acids or strong bases.
- 10.4. Conditions to avoid
Avoid contact with strong oxidizing agents, reducing agents, acids or strong bases.
Avoid overheating
Avoid exposure to open flames and heat sources.
- 10.5. Incompatible materials
Strong reducing agents and oxidants, strong bases and acids, high temperature materials
- 10.6. Hazardous decomposition products
COx.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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- a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
- b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
- c) serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met
- d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
- f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
- g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
- h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure

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Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Benzyl acetate - CAS: 140-11-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5 g/kg

vanillin - CAS: 121-33-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3925 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

linalool - CAS: 78-70-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2790 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 5610 mg/kg

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 54464-57-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 5000 mg/kg

coumarin - CAS: 91-64-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 293 mg/kg

Test: LD50 - Route: Inhalation - Species: Rat = 293 mg/kg

3,7-dimethyl-3-octanol - CAS: 78-69-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 8270 mg/kg

Test: LD50 - Route: Inhalation - Species: Rabbit > 5000 mg/kg

(4-tert-butylcyclohexyl) acetate - CAS: 32210-23-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3.55 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit >= 5000 mg/kg

3,7-dimethylnona-1,6-dien-3-ol - CAS: 10339-55-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5283

Test: LC50 - Route: Inhalation - Species: Rat > 1 mg/l

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

reaction Mass of Cis-4-(isopropyl) cyclohexanemethanol and Trans-4-(isopropyl) cyclohexanemethanol - CAS: 5502-75-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

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12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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The product is classified: Aquatic Chronic 3 - H412

Benzyl acetate - CAS: 140-11-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 17 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 4 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 92 mg/l - Duration h: 72

cis-2- Pentylcyclopentanol - CAS: 157357-30-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 13 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia magna 18 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 14 mg/l - Duration h: 72

vanillin - CAS: 121-33-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 57 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 36.79 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 120 mg/l - Duration h: 72

linalool - CAS: 78-70-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 27.8 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 59 mg/l - Duration h: 48

citronellol - CAS: 106-22-9

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 17.48 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2.4 mg/l - Duration h: 72

coumarin - CAS: 91-64-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.94 mg/l - Duration h: 96

3,7-dimethyl-3-octanol - CAS: 78-69-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 8.9 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 14.2 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 21.6 mg/l - Duration h: 72

(4-tert-butylcyclohexyl) acetate - CAS: 32210-23-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 8.6 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 5.3 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 22 mg/l - Duration h: 72

3,7-dimethylnona-1,6-dien-3-ol - CAS: 10339-55-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 24 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia magna 23 mg/l - Duration h: 48

Endpoint: EC50 - Species: Desmodesmus subspica 13.3 mg/l - Duration h: 72

reaction Mass of Cis-4-(isopropyl) cyclohexanemethanol and Trans-4-(isopropyl)

cyclohexanemethanol - CAS: 5502-75-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Oncorhynchus mykiss 4.2 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia magna 13 mg/l - Duration h: 48

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Endpoint: EC50 - Species: Pseudokirchneriella subcapitata 6 mg/l - Duration h: 72

- 12.2. Persistence and degradability
 - cis-2- Pentylcyclopentanol - CAS: 157357-30-7
 - Biodegradability: Readily biodegradable
- 12.3. Bioaccumulative potential
 - N.A.
- 12.4. Mobility in soil
 - N.A.
- 12.5. Results of PBT and vPvB assessment
 - vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
 - No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects
 - None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
 - Recover if possible. In so doing, comply with the local and national regulations currently in force.
- Additional disposal information:
- The waste must not be released into the discharge channels.
 - Dispose of contents and container in accordance with applicable local and national regulations.

SECTION 14: Transport information

- 14.1. UN number or ID number
 - Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
 - N.A.
- 14.3. Transport hazard class(es)
 - N.A.
- 14.4. Packing group
 - N.A.
- 14.5. Environmental hazards
 - ADR-Environmental Pollutant: No
 - IMDG-Marine pollutant: No
- 14.6. Special precautions for user
 - N.A.
- 14.7. Maritime transport in bulk according to IMO instruments
 - N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Regulation (EC) n. 1907/2006 (REACH)

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Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

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