

„Balsius“, LTD
Company registration No. 304404192
VAT Payer No. LT100010457118
IBAN: LT507300010149829042
EORI code LT304404192
Bank Swedbank, AB
Bank SWIFT code HABALT22
Address Jundos g. 15, Vilnius, 08402, Lithuania



Safety Data Sheet

revision n° 1 of 27/3/2021 based on Reg.1907/2006/CE & Reg.2015/830/CE - ATP 13&12

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade code:	ALMOND&VANILLA SKU-AA-MIGVAN
INCI:	parfum / fragrance
Product's type:	Blend of essential oils, natural and synthetic fragrances. Content of natural substances <90%.
Reg. 1334/2008:	NOT for ALIMENTARY USE based on Reg. 872/2012 del 01.10.2012
Flow chart:	production process made by cold mixing.
Origin:	Italy (EC)
CAS n°:	Exempt, it is a mixture.
EC n°:	Exempt, it is a mixture.
REACH n°:	Exempt, it is a mixture.
Tariff n°:	304404192
VAT n°:	LT100010457118
UFI n°	WUTU-2892-9V65-CHNN

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

Identified use:	for use into cosmetic products; for use into environmental deodorants; for use into detergency; for use into technical materials (leather, paper, plastic, rubber, fabrics, gasolines, paints, inks, glues).
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Uses advised against:	use into repellents and attractive animals; use into products used in the food field; use into supplements; use into feeds.
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1.3. Details of the supplier of the safety data sheet

Supplier:
Balsius, LTD
Jundos str. 15, Vilnius, 08402, Lithuania
Tel. +37061173333

1.4. Emergency telephone number

Tel.: +37061173333 (working hours only)
European Emergency Number: 112
AUSTRIA +43 1 406 43 43
BELGIUM/LUXEMBOURG +32 070 245 245
BULGARIA +359 2 9154 409
CROATIA +385 1 2348 342 or 112
CZECH REPUBLIC +420 224 919 293 or +420 224 915 402
DENMARK +45 82 12 12 12

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ESTONIA 16662 or 112
FINLAND +358 09 471 977
FRANCE +33 (0)1 45 42 59 59
GERMANY +49 30 450 653565
GREECE +30 10 779 3777 HUNGARY +36 80 20 11 99
ICELAND 543 2222
IRELAND +353 01 8092566 or 01 8379964
ITALY +39 06 305 4343
LATVIA +371 67042473
LITHUANIA +370 5 236 20 52 or +370 687 53378
MALTA (+356) 2545 0000
NORWAY 22 59 13 00
NETHERLANDS +31 30 274 88 88
POLAND +48 22 619 66 54 or +48 22 619 08 97
PORTUGAL 808 250 143
ROMANIA +40 021.318.36.06
SLOVAKIA +421 2 5477 4166
SLOVENIA +386 41 650 500
SPAIN +34 91 562 04 20
SWEDEN 112
UNITED KINGDOM 0870 243 2241 or +44 (0)20 7771 5310

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

-  Warning, Skin Irrit. 2, Causes skin irritation.
-  Warning, Eye Irrit. 2, Causes serious eye irritation.
-  Warning, Skin Sens. 1B, may cause an allergic skin reaction.
-  Warning, Aquatic Acute 1, Very toxic to aquatic life.
-  Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash your hands thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P391 Collect spillage.

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Special Provisions:
None
Contains
Tetramethyl acetyloctahydronaphthalenes (OTNE), NNI
Veratraldehyde, NNI: May produce an allergic reaction.
Piperonal (Heliotropine), NNI: May produce an allergic reaction.
Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards
vPvB Substances: None - PBT Substances: None
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:
PPAI – Physical processed agroingredients or natural raw materials and solvents
CPAI – Chemically processed agroingredients or natural molecules
NNI – Non natural ingredients (chemical origin)
* - allergenic substances of synthetic origin (NNI) according to Reg. 1223/2009 N° of REACH registration:
yy-yyyyyyyyyy-yy->xxxx – registered substance
00-0000000000-00->1ty – exempt from registration (manufactured/imported <1ton/year)
00-0000000000-00-mixt - exempt from registration (blending product)
00-0000000000-00-food - exempt from registration (food additive/flavor)
00-0000000000-00-NCS* - exempt from registration (substance content in low concentration in Natural complex product, essential oils, resins, absolute...)

Qty	Name	Ident. Number		Classification
>= 30% - < 40%	Diethyl phthalate, NNI	CAS: EC: REACH No.:	84-66-2 201-550-6 01-2119486682-27-xxxx	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
>= 25% - < 30%	Hexamethylindanopyran, NNI	CAS: EC: REACH No.:	1222-05-5 214-946-9 01-2119488227-29-xxxx	 4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
>= 10% - < 12,5%	Tetramethyl acetyloctahydronaphthalenes (OTNE), NNI	CAS: EC: REACH No.:	54464-57-2 915-730-3 01-2119489989-04-xxxx	 3.2/2 Skin Irrit. 2 H315  3.4.2/1B Skin Sens. 1B H317  4.1/C1 Aquatic Chronic 1 H410
>= 10% - < 12,5%	Benzaldehyde	CAS: EC: REACH No.:	100-52-7 202-860-4 01-2119455540-44-xxxx	 3.1/4/Oral Acute Tox. 4 H302
>=1%-<3%	Veratraldehyde, NNI	CAS: EC: REACH No.:	120-14-9 204-373-2 01-2120739621-56-xxxx	 3.1/4/Oral Acute Tox. 4 H302  3.4.2/1 Skin Sens. 1 H317
>=1%-<3%	Ethyl vanillin, NNI	CAS: EC: REACH No.:	121-32-4 204-464-7 01-2119958961-24-xxxx	 3.3/2 Eye Irrit. 2 H319

>=1%-<3%	Acetyl hexamethyl tetralin - AHTN, NNI	CAS: EC: REACH No.:	1506-02-1 244-240-6 01-2119539433-40-xxxx	 3.1/4/Oral Acute Tox. 4 H302  4.1/C1 Aquatic Chronic 1 H410
>= 0,5% - < 1%	Piperonal (Heliotropine), NNI	CAS: EC: REACH No.:	120-57-0 204-409-7 01-2119983608-21-xxxx	 3.4.2/1 Skin Sens. 1 H317
>= 0,1% - < 0,25%	BHT (Butyl hydroxytoluene), NNI	CAS: EC: REACH No.:	128-37-0 204-881-4 01-2119565113-46-xxxx	 4.1/C1 Aquatic Chronic 1 H410

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, remove contact lenses, if present and easy to do. Rinse with water with the eyelids open for a sufficient length of time. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. Do not use eyewash or ointment of any kind before consult an ophthalmologist immediately. Protect uninjured eye.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Daily individual protection:

Safety glasses (EN 166:2001) and gloves.

Respiratory mask with filter ABEK (EN14387), if ad operate the product in powder form.Remove all sources of ignition.

Wear breathing apparatus if exposed to vapors/dusts/aerosols.

Provide adequate ventilation.

6.2. Personal precautions, protective equipment, and emergency procedures

For nonemergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.3. Environmental precautions

Do not allow to enter soil/subsoil. Do not allow to enter surface water or drains.Retain contaminated washing water and dispose it.

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

6.4. Methods and material for containment and cleaning up

Wash with plenty of water.

6.5. Reference to other sections

See also section 8 and 13

SECTION 7: HANDLING AND STORAGE

7.2. 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.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

INSTRUCTIONS AS REGARDS STORAGE PERMISES:

Dry, cool and well-ventilated areas, not exposed to direct sunlight. Safety electric system.

CONSERVATION:

Keep this product not more than 12 months, in the containers tightly closed and full, from 4°C to 20°C. Avoid direct exposure to sunlight, in a well ventilated, dry place, away from unguarded flame and heat sources. Incompatible materials:

None.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Concentrated product only for industrial use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL Exposure Limit Values

Diethyl phthalate, NNI - CAS: 84-66-2

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Worker Industry: 10.56 mg/m³ - Consumer: 2.6 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: ECHA
Worker Industry: 15 mg/kg - Consumer: 7.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: ECHA
Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: ECHA

Ethyl vanillin, NNI - CAS: 121-32-4

Worker Industry: 49 mg/m³ - Consumer: 8.75 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: ECHA
Worker Industry: 7 mg/kg - Consumer: 2.50 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: ECHA
Consumer: 2.50 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: ECHA

Acetyl hexamethyl tetralin - AHTN, NNI - CAS: 1506-02-1

Worker Industry: 0.175 mg/m³ - Consumer: 0.0435 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: ECHA
Worker Industry: 0.610 mg/kg - Consumer: 0.305 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: ECHA
Consumer: 0.0125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: ECHA
Consumer: 1.2 mg/kg - Exposure: Eyes - Frequency: Long Term, systemic effects - Notes: ECHA

Piperonal (Heliotropine), NNI - CAS: 120-57-0

Worker Industry: 17.6 mg/m³ - Consumer: 4.3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: ECHA
Worker Industry: 2.5 mg/kg - Consumer: 1.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: ECHA
Consumer: 1.25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: ECHA

PNEC Exposure Limit Values

Diethyl phthalate, NNI - CAS: 84-66-2

Target: Fresh Water - Value: 12 ug/l - Notes: ECHA
Target: Marine water - Value: 1.2 ug/l - Notes: ECHA
Target: Microorganisms in sewage treatments - Value: 2 mg/l - Notes: ECHA
Target: Freshwater sediments - Value: 137 ug/l - Notes: ECHA
Target: Marine water sediments - Value: 13.7 ug/l - Notes: ECHA
Target: Soil (agricultural) - Value: 137 ug/l - Notes: ECHA
Target: Predators - Value: 33 mg/kg - Notes: ECHA

Ethyl vanillin, NNI - CAS: 121-32-4

Target: Fresh Water - Value: 118 ug/l - Notes: ECHA
Target: Marine water - Value: 11.8 ug/l - Notes: ECHA
Target: Microorganisms in sewage treatments - Value: 10 mg/l - Notes: ECHA
Target: Freshwater sediments - Value: 15 ug/l - Notes: ECHA
Target: Marine water sediments - Value: 1.5 ug/l - Notes: ECHA
Target: Soil (agricultural) - Value: 2923 ug/l - Notes: ECHA

Acetyl hexamethyl tetralin - AHTN, NNI - CAS: 1506-02-1

Target: Fresh Water - Value: 2.2 ug/l - Notes: ECHA
Target: Marine water - Value: 0.22 ug/l - Notes: ECHA
Target: Microorganisms in sewage treatments - Value: 2.20 mg/l - Notes: ECHA
Target: Freshwater sediments - Value: 1720 ug/l - Notes: ECHA
Target: Marine water sediments - Value: 345 ug/l - Notes: ECHA
Target: Soil (agricultural) - Value: 9.9 ug/kg - Notes: ECHA
Target: Predators - Value: 1.1 mg/kg - Notes: ECHA

Piperonal (Heliotropine), NNI - CAS: 120-57-0

Target: Fresh Water - Value: 2.5 ug/l - Notes: ECHA
Target: Marine water - Value: 0.25 ug/l - Notes: ECHA
Target: Microorganisms in sewage treatments - Value: 10 mg/l - Notes: ECHA
Target: Freshwater sediments - Value: 11.9 ug/l - Notes: ECHA
Target: Marine water sediments - Value: 1.19 ug/l - Notes: ECHA
Target: Soil (agricultural) - Value: 0.84 ug/l - Notes: ECHA
Target: Predators mg/kg - Notes: ECHA

8.2. Exposure controls

Eye protection:

Use close fitting safety visor or safety glasses (EN 166:2001).

Protection for skin:

Use normal clothing that provides protection to the skin, e.g. cotton.

Protection for hands:

Use clothing that provides comprehensive protection to the skin, e.g. lactice, nitrilic and ect.

Respiratory protection:

Not needed for normal use.

Use multi-purpose combination respirator cartridge (US), type ABEK (EN14387) respirator filter when use powder or cristals

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substances.
Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	clear liquid
Colour:	yellow
Odour:	fruity, vanilla, sweet
Relative density:	1,031 - 1,051 g/ml (25°C)
Refractive Index:	1,502 - 1,522 nD (25°C)
Solubility:	liposoluble (ethanol, oils, and fats)
Flash point:	>61 °C
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Autoignition temperature:	N.A.
Solid/gas flammability:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.
Vapour pressure:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Vapour density:	N.A.
Viscosity:	N.A.
pH:	7.0 (+/- 0.5)
Alcoholic grade:	N.A.
Optical rotation:	N.A.

9.2. Other information

Nutritional values			
Energy value:	37 kJ/g = 9 kcal/g		
Amino acids	0g	Monounsaturated fats	0g
Ash:	0g	Polyunsaturated fats	0g
Carbohydrates:	0g	Protein:	0g
Fats:	0g	Saturated fat:	0g
Fibers:	0g	Sugars:	0g
Lipids:	0g	Vitamins:	0mg
Minerals:	0mg	Water:	0g

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

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None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information of the product:

The toxicological data calculate based on the total formulation, taking into account the actual concentrations of the individual substances in order to assess toxicological effects resulting from exposure of human skin to the mix.

NOEL dermal (no observed effect level, human dermal): 1625 µg/cm²

Conversion info:

mg/kg=µg/cm² x 10/37 or 1µg/cm²=10mg/m²;

human: mg/kg x 37=mg/m².

child: <20kg: mg/kg x 25=mg/m²

*Date based on HED (human equivalent dose) U.S. Food & Drug Administration. Estimating the Safe Starting Dose in Clinical Trials for Therapeutics in Adult Healthy Volunteers.

Toxicological information of the main substances found in the product:

Diethyl phthalate, NNI - CAS: 84-66-2

Oral toxicity acute (OECD Test Guideline 401) - LD50: 8600 mg/kg

Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 150 mg/kg; LOAEL: n/a mg/kg

Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 407):

NOEL (no observed effect level): 12434 µg/cm²

LOEL (lowest observed effect level): n/a µg/cm²

NESIL (no expected sensitization induction level): 1000 µg/cm²

Skin corrosion/irritation (dermal)(HRIPT): not irritating

Skin sensitization (HRIPT): non sensitizing

Eye: Irritation (ocular)(FHA): irritating

Inhalation toxicity (OECD Test Guideline 403): 511 mg/m³

Developmental NOAEL maternal: <500 mg/kg; NOAEL foetal: 1600 mg/kg

Reproductive Toxicity NOAEL: 15000 mg/kg

Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Hexamethylindanopyran, NNI - CAS: 1222-05-5

Oral toxicity acute (OECD Test Guideline 401) - LD50: 4640 mg/kg

Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 150 mg/kg; LOAEL: 350 mg/kg

Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 402):

NOEL (no observed effect level): 11840 µg/cm²

LOEL (lowest observed effect level): n/a µg/cm²

NESIL (no expected sensitization induction level): 11800 µg/cm²

Skin corrosion/irritation (dermal)(HRIPT): not irritating

Skin sensitization (HRIPT): non sensitizing

Eye: Irritation (ocular)(FHA): non irritating

Inhalation toxicity (OECD Test Guideline 403): LC50 n/a mg/m³

Developmental NOAEL maternal: 50 mg/kg; NOAEL foetal: 150 mg/kg

Reproductive Toxicity NOAEL: 20 mg/kg

Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Tetramethyl acetyloctahydronaphthalenes (OTNE), NNI - CAS: 54464-57-2

Oral toxicity acute (OECD Test Guideline 401) - LD50: >5000. mg/kg

Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 120 mg/kg; LOAEL: n.a. mg/kg

Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 402):

NOEL (no observed effect level): >6000 µg/cm²

LOEL (lowest observed effect level): n.a. µg/cm²

NESIL (no expected sensitization induction level): 47200 µg/cm²

Skin corrosion/irritation (dermal)(HRIPT): irritating @45%

Skin sensitization (HRIPT): sensitizing >6%

Eye: Irritation (ocular)(FHA): non irritating

Inhalation toxicity (OECD Test Guideline 403): n.a. mg/m³

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Developmental NOAEL maternal: 240 mg/kg; NOAEL foetal: 480 mg/kg
Reproductive Toxicity NOAEL: n.a. mg/kg
Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Methylidihydrojasmonate, NNI - CAS: 24851-98-7

Oral toxicity acute (OECD Test Guideline 401) - LD50: >5000 mg/kg
Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 100 mg/kg; LOAEL: n.a. mg/kg
Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 402):
NOEL (no observed effect level): >6000 µg/cm²
LOEL (lowest observed effect level): n.a. µg/cm²
NESIL (no expected sensitization induction level): n.a. µg/cm²
Skin corrosion/irritation (dermal)(HRIPT): not irritating
Skin sensitization (HRIPT): non sensitizing <20%
Eye: Irritation (ocular)(FHSA): non irritating
Inhalation toxicity (OECD Test Guideline 403): >4.93 mg/m³
Developmental NOAEL maternal: 80 mg/kg; NOAEL foetal: 120 mg/kg
Reproductive Toxicity NOAEL: n.a. mg/kg
Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Veratraldehyde, NNI - CAS: 120-14-9

Oral toxicity acute (OECD Test Guideline 401) - LD50: 2000 mg/kg
Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: n/a mg/kg; LOAEL: n/a mg/kg
Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 402):
NOEL (no observed effect level): >6000 µg/cm²
LOEL (lowest observed effect level): n/a µg/cm²
NESIL (no expected sensitization induction level): n/a µg/cm²
Skin corrosion/irritation (dermal)(HRIPT): not irritating
Skin sensitization (HRIPT): non sensitizing
Eye: Irritation (ocular)(FHSA): non irritating
Inhalation toxicity (OECD Test Guideline 403): LC50 n/a mg/m³
Developmental NOAEL maternal: n/a mg/kg; NOAEL foetal: n/a mg/kg
Reproductive Toxicity NOAEL: n/a mg/kg
Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Ethyl vanillin, NNI - CAS: 121-32-4

Oral toxicity acute (OECD Test Guideline 401) - LD50: 3500 mg/kg
Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 1000 mg/kg; LOAEL: n.a. mg/kg
Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 431):
NOEL (no observed effect level): 9400 µg/cm²
LOEL (lowest observed effect level): n.a. µg/cm²
NESIL (no expected sensitization induction level): n.a. µg/cm²
Skin corrosion/irritation (dermal)(HRIPT): not irritating
Skin sensitization (HRIPT): non sensitizing
Eye: Irritation (ocular)(FHSA): serious irritating
Inhalation toxicity (OECD Test Guideline 403): n.a. mg/m³
Developmental NOAEL maternal: 250 mg/kg; NOAEL foetal: 500 mg/kg
Reproductive Toxicity NOAEL: n.a. mg/kg
Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Acetyl hexamethyl tetralin - AHTN, NNI - CAS: 1506-02-1

Oral toxicity acute - rat (OECD Test Guideline 401) - LD50: 964 mg/kg
Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 15 mg/kg; LOAEL: n/a mg/kg
Dermal toxicity (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 402):
NOEL (no observed effect level): 8763 µg/cm²
LOEL (lowest observed effect level): n/a µg/cm²
NESIL (no expected sensitization induction level): 8700 µg/cm²
Skin corrosion/irritation (dermal)(HRIPT): not irritating
Skin sensitization (HRIPT): non sensitizing @10%
Eye: Irritation (ocular)(FHSA): slightly irritating
Inhalation toxicity (OECD Test Guideline 403): LC50 n/a mg/m³
Developmental NOAEL maternal: 5 mg/kg; NOAEL foetal: 50 mg/kg
Reproductive Toxicity NOAEL: n/a mg/kg
Genotoxicity (in vivo): negative. Genotoxicity (in vitro): n/a

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

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EORI code LT304404192
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- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

Diethyl phthalate, NNI - CAS: 84-66-2

- a) Aquatic acute toxicity - Endpoint: LC50 - Species: Fish (Fish, Acute Toxicity Test: OECD 203) 12 mg/l - Duration h: 96 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: Daphnia (Daphnia sp. Acute Immobilisation Test: OECD 202) 90 mg/l - Duration h: 42 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: Algae (Freshwater Alga&Cyanobacteria, Grow. Inhib.Test: OECD 201) 45 mg/l - Duration h: 72 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: .MICRO 20 mg/l - Duration h: 3 - Notes: ECHA

Ethyl vanillin, NNI - CAS: 121-32-4

- a) Aquatic acute toxicity - Endpoint: LC50 - Species: Fish (Fish, Acute Toxicity Test: OECD 203) 87.6 mg/l - Duration h: 96 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: Daphnia (Daphnia sp. Acute Immobilisation Test: OECD 202) 26.2 mg/l - Duration h: 42 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: Algae (Freshwater Alga&Cyanobacteria, Grow. Inhib.Test: OECD 201) 100 mg/l - Duration h: 72 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: .MICRO 158.7 mg/l - Duration h: 3 - Notes: ECHA

Acetyl hexamethyl tetralin - AHTN, NNI - CAS: 1506-02-1

- a) Aquatic acute toxicity - Endpoint: LC50 - Species: Fish (Fish, Acute Toxicity Test: OECD 203) 0.035 mg/l - Duration h: 96 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: Daphnia (Daphnia sp. Acute Immobilisation Test: OECD 202) 0.610 mg/l - Duration h: 48 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: Algae (Freshwater Alga&Cyanobacteria, Grow. Inhib.Test: OECD 201) 0.835 mg/l - Duration h: 72 - Notes: ECHA
- c) Bacteria toxicity - Endpoint: EC50 - Species: .MICRO 22 mg/l - Duration h: 3 - Notes: ECHA

Piperonal (Heliotropine), NNI - CAS: 120-57-0

- a) Aquatic acute toxicity - Endpoint: LC50 - Species: Fish (Fish, Acute Toxicity Test: OECD 203) 2.5 mg/l - Duration h: 96 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: Algae (Freshwater Alga&Cyanobacteria, Grow. Inhib.Test: OECD 201) 52 mg/l - Duration h: 72 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: Daphnia (Daphnia sp. Acute Immobilisation Test: OECD 202) 31 mg/l - Duration h: 48 - Notes: ECHA
- a) Aquatic acute toxicity - Endpoint: EC50 - Species: .MICRO 100 mg/l - Duration h: 3 - Notes: ECHA

12.2. Persistence and degradability

According to theoretical calculations based on QSAR (Quantitative Structure Assessment Relationships) of the composition of the concentrate product, the biodegradability is 50-65% / 28d. The biodegradability increases if the product is diluted.

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. Other adverse effects

None

12.7. German Water Hazard Class.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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Recover, if possible. Send to authorized disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Avoid release to the environment.

CER code:

- 070608 - "other sill bottoms and reaction residues"

Properties of wastes of wastes which render them hazardous:

- HP4 - "Irritant" non-corrosive substances and preparations which, through immediate, prolonged or | repeated contact with the skin or mucous membrane, can cause inflammation.

- HP5 "Harmful": substances and preparations which, if they are inhaled or ingested or if they penetrate | the skin, may involve limited health risks.

14. TRANSPORT INFORMATION

14.1 UN Number:

N° ONU: UN3082 - Environmentally hazardous substance, liquid, n.o.s.

14.2 UN proper shipping name:

Name ONU: Hexamethylindanopyran

14.3 Indications for ADR transport:

ADR - Classe: 9-M6
ADR - Label: 9
ADR - Packing Group: III
ADR - Gallery code: (-)

14.4 Indications for IATA transport:

IATA - Class: 9-M6
IATA - Passenger Aircraft: 914
| IATA - Cargo Aircraft: 914
IATA - Label: 9
IATA - Packing group: III

14.5 Indications for IMO transport:

IMO - Class: 9-M6
IMO - EmS: F-A, S-F
IMO - Label: 9
IMO - Packing group: III

14.6 Special pre-orders for users

None

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The substance / mixture is not intended to be transported in bulk; IBC code not required.

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)

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Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
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)

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
Restriction 40
Restrictions related to the substances contained:
No restriction.

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
Product belongs to category: E1

15.2. Chemical safety assessment

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

SECTION 16: OTHER INFORMATION

Full text of phrases referred to in Section 3:
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.

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

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Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

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
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1B, H317	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

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

Main bibliographic sources:

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 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.

ACRONIMEX

ADN: Accord européen relative au transport international des marchandises dangereuses par voies de navigation intérieures (accordo europeo relativo al trasporto internazionale delle merci pericolose per vie navigabili interne)

ADR: Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)

BCF: BioConcentration Factor (Fattore di BioConcentrazione)

C&L: Classification and Labelling (Classificazione ed Etichettatura)

CAS- EINECS: European CAS number only for vegetal products

CAS: Chemical Abstracts Service

Chemicals Agency (Agenzia Europea delle Sostanze Chimiche)

CITES: The Convention on International Trade in Endangered Species of Wild Fauna and Flora

CLP: Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio) CMR: Carcinogenic, Mutagenic Reprotoxic (Cancerogenico–Mutagenico–Reprotossico)

COSING: European Commission database for information on cosmetic substances and ingredients

CSA: Chemical Safety Assessment (Valutazione del Rischio Chimico)

CSR: Chemical Safety Report (Relazione sulla Sicurezza Chimica)

DNEL: Derived no effect level (Livello derivato senza effetto)

EC Numbers: European Community number (replace the outmoded "EINECS/ELINCS number")

EFFA: European Flavour and Fragrance Association

EINECS: European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio)

ELINCS: European List of Notified Chemical Substances

EMA: The European Agency for the Evaluation of Medicinal Products

GefStoffVO: Gefahrstoffverordnung (Ordinanza sulle sostanze pericolose in Germania)

GHS: Globally Harmonised System (Sistema Globale Armonizzato)

IATA: International Air Transport Association (Associazione Internazionale del Trasporto Aereo)

IATA-DGR: IATA Dangerous Goods Regulations (Regolamento sulle merci pericolose della IATA)

ICAO: International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)

ICAO-TI: International Civil Aviation Organization - Technical Instructions for the Safe Transport of Dangerous Goods by Air (Istruzioni tecniche della

„Balsius“, LTD
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"Organizzazione internazionale per l'aviazione civile" (ICAO)

IFRA: The International Fragrance Association

IMDG: International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)

IOFI: International Organization of the Flavor Industry

ISS: Istituto Superiore di Sanità

KSt: Explosion Constant (explosion risk), coefficiente d'esplosione.

LC50: Lethal Concentration 50 (concentration in water having 50% chance of causing death to aquatic life), (concentrazione letale per il 50 per cento della popolazione di test)

LD50: Lethal Dose 50 (median concentration of a toxicant that will kill 50% of the test animals within a designated period), (dose letale per il 50 per cento della popolazione di test)

LOAEL: Lowest Observed Adverse Effect Level (La più piccola dose senza effetto avverso osservabile)

LOEL: Lowest Observed Effect Level (La più bassa dose al quale si riscontra un effetto biologico)

Log Kow: Partition coefficient (Coefficiente di ripartizione ottanolo – acqua)

MOAEL: Maximum Observed adverse effect level (Dose massima alla quale tutti i soggetti manifestano un determinato effetto)

MSDS- Material Safety Data Sheet (SDS Scheda di Sicurezza)

NLP: No-Longer Polymers

NOAEL: No Observed Adverse Effect Level (Dose senza effetto avverso osservabile)

NOEL: No Observed Effect Level (Dose priva di qualsiasi effetto biologico)

OR: Only Representative (Rappresentante Esclusivo)

PBT: Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)

Ph. Eur.: European Pharmacopoeia

PNEC: Predicted no effect concentration (Concentrazione prevedibile priva di effetti)

REACH: Registration Evaluation Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto internazionale di merci pericolose per ferrovia)

STA: Stima della tossicità acuta

STAmix: Stima della tossicità acuta (Miscele)

STEL: Short Term Exposure Limit (Limite d'esposizione a corto termine)

STOT: Specific Target Organ Toxicity (Tossicità organo-specifica)

TLV-STEL: Threshold Limit Value - Short-Term Exposure Limit (valore massimo consentito per esposizioni brevi)

TLV-TWA: Threshold Limit Values - Time Weighted Average (Valore limite di soglia media ponderata nel tempo)

WGK: Wassergefährdungsklasse (Classe di pericolo per le acque (Germania))