

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

1.1. Product identifier

Product form	: Mixture
Product name	: GINGER COOKIE
CAS-No.	: MIXTURE
Product code	: #248160
Product group	: Formula

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Belle Aire Creations
30 Porter Drive
60073 Round Lake Park, IL - USA
T 800-373-4709 - F 847-816-7695
SDS@belleairecreations.com - www.belleairecreations.com

1.4. Emergency telephone number

Emergency number : INFOTRAC (US & Canada) 1-800-535-5053 | (International) 1-352-323-3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP)

: Warning

Hazardous ingredients

: BENZOIN SIAM ; METHYL CYCLOPENTENOLONE; CARYOPHELLENE BETA;
CINNAMIC ALDEHYDE; CINNAMIC ALCOHOL; BENZYL CINNAMATE; DIHYDRO
COUMARIN; COUMARIN; DIBENZYL ETHER; HELIOTROPIN; METHYL-METHYLENE-
TRICYCLODECANOL

Hazard statements (CLP)

: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
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

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
DIOCTYL ADIPATE substance with national workplace exposure limit(s) (PL)	(CAS-No.) 103-23-1 (EC-No.) 203-090-1	10 – 30	Not classified
BENZYL ALCOHOL substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, CH)	(CAS-No.) 100-51-6 (EC-No.) 202-859-9 (EC Index-No.) 603-057-00-5	10 – 30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319
CINNAMAL	(CAS-No.) 104-55-2 (EC-No.) 203-213-9	10 – 30	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
BENZYL BENZOATE	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9	5 – 10	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
VANILLIN	(CAS-No.) 121-33-5 (EC-No.) 204-465-2	1 – 5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
COUMARIN	(CAS-No.) 91-64-5 (EC-No.) 202-086-7	1 – 5	Acute Tox. 3 (Oral), H301 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
1,3-benzodioxole-5-carbaldehyde	(CAS-No.) 120-57-0 (EC-No.) 204-409-7	1 – 5	Skin Sens. 1B, H317
ANISIC ALDEHYDE (AUBEPINE)	(CAS-No.) 123-11-5 (EC-No.) 204-602-6	1 – 5	Aquatic Chronic 3, H412
METHYL CYCLOPENTENOLONE	(CAS-No.) 765-70-8 (EC-No.) 201-303-2	0.5 – 1	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
BENZYL CINNAMATE	(CAS-No.) 103-41-3 (EC-No.) 203-109-3	0.5 – 1	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-methyl-8-methylenetricyclo[3.3.1.1 ^{3,7}]decan-2-ol	(CAS-No.) 122760-84-3 (EC-No.) 406-330-5 (EC Index-No.) 603-123-00-3	< 0.5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
CINNAMYL ALCOHOL	(CAS-No.) 104-54-1 (EC-No.) 203-212-3	< 0.5	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
DIBENZYL ETHER	(CAS-No.) 103-50-4 (EC-No.) 203-118-2	< 0.5	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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BENZOIN SIAM	(CAS-No.) 9000-72-0 (EC-No.) 232-556-7, 281-683-4	< 0.5	Skin Sens. 1B, H317
DIHYDRO COUMARIN	(CAS-No.) 119-84-6 (EC-No.) 204-354-9	< 0.5	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
DIPROPYLENE GLYCOL substance with national workplace exposure limit(s) (DE, CH)	(CAS-No.) 110-98-5 (EC-No.) 246-770-3	< 0.5	Not classified
CARYOPHELLENE BETA	(CAS-No.) 87-44-5 (EC-No.) 201-746-1	< 0.5	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
METHYL SALICYLATE	(CAS-No.) 119-36-8 (EC-No.) 204-317-7	< 0.5	Acute Tox. 4 (Oral), H302 Repr. 2, H361
ALPHA PINENE substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO, CH)	(CAS-No.) 80-56-8 (EC-No.) 201-291-9	< 0.5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LIMONENE substance with national workplace exposure limit(s) (BE, DE, ES, FI, NO, CH)	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7	< 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ACETYL PROPIONYL substance with national workplace exposure limit(s) (DE)	(CAS-No.) 600-14-6 (EC-No.) 209-984-8	< 0.5	Flam. Liq. 2, H225 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373
BENZALDEHYDE substance with national workplace exposure limit(s) (BG, FI, HU, LT, LV, PL)	(CAS-No.) 100-52-7 (EC-No.) 202-860-4 (EC Index-No.) 605-012-00-5	< 0.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one substance with national workplace exposure limit(s) (AT, BG, DK, FI, FR, GB, GR, LT, PL, PT, SK, IS, NO, CH)	(CAS-No.) 76-22-2 (EC-No.) 207-355-2	< 0.5	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371 Aquatic Chronic 3, H412
ISO VALERALDEHYDE substance with national workplace exposure limit(s) (AT, DE, LT, SI)	(CAS-No.) 590-86-3 (EC-No.) 209-691-5	< 0.5	Flam. Liq. 1, H224 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Chronic 2, H411
beta-Pinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO, CH)	(CAS-No.) 127-91-3 (EC-No.) 204-872-5	< 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DIMETHYL SULFIDE substance with national workplace exposure limit(s) (BE, EE, ES, IE, LT, LV, PT, SE)	(CAS-No.) 75-18-3 (EC-No.) 200-846-2	< 0.5	Flam. Liq. 1, H224 Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)		
Germany	Notes	
United Kingdom	Local name	Bornan-2-one
United Kingdom	WEL TWA (OEL TWA) [1]	13 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	2 ppm
United Kingdom	WEL STEL (OEL STEL)	19 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	3 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

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8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: ≈ 92.9 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Non flammable.
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
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 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.

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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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

ISO VALERALDEHYDE (590-86-3)

LD50 dermal	2534 mg/kg bodyweight
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DIMETHYL SULFIDE (75-18-3)

LD50 oral	3500 mg/kg bodyweight
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METHYL CYCLOPENTENOLONE (765-70-8)

LD50 oral	1067 mg/kg bodyweight
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beta-Pinene (127-91-3)

LD50 oral rat	4700 mg/kg (Rat, Oral)
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BENZYL BENZOATE (120-51-4)

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
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LD50 oral	1500 mg/kg bodyweight
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LD50 dermal rabbit	> 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal)
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LD50 dermal	4000 mg/kg bodyweight
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ALPHA PINENE (80-56-8)

LD50 oral rat	3700 mg/kg (Rat, Male, Weight of evidence, Oral)
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LD50 oral	500 mg/kg bodyweight
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LD50 dermal rabbit	> 5000 mg/kg (24 h, Rabbit, Weight of evidence, Dermal)
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BENZYL ALCOHOL (100-51-6)

LD50 oral rat	1620 mg/kg bw/day (Rat, Male, Experimental value, Oral)
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LD50 oral	1620 mg/kg bodyweight
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LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
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LD50 dermal	2500 mg/kg bodyweight
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LC50 Inhalation - Rat	> 4.178 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value, Inhalation (aerosol))
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BENZALDEHYDE (100-52-7)

LD50 oral rat	1300 mg/kg (Rat, Oral)
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LD50 oral	1430 mg/kg bodyweight
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LD50 dermal rat	> 1250 mg/kg (Rat, Dermal)
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LD50 dermal rabbit	5000 mg/kg (Rabbit, Dermal)
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LD50 dermal	2500 mg/kg bodyweight
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LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h
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DIPROPYLENE GLYCOL (110-98-5)

LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 5010 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal)

CINNAMAL (104-55-2)

LD50 oral	2200 mg/kg bodyweight
LD50 dermal	1100 mg/kg bodyweight

DIOCTYL ADIPATE (103-23-1)

LD50 oral rat	> 20000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LC50 Inhalation - Rat	> 5.7 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

LIMONENE (5989-27-5)

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)

CINNAMYL ALCOHOL (104-54-1)

LD50 oral rat	2220 mg/kg bodyweight Animal: rat, Guideline: other:
LD50 oral	2500 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	757.04 mg/l air Animal: rat, Guideline: other:

1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)

LD50 oral	1500 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h

ACETYL PROPIONYL (600-14-6)

LD50 oral rat	3000 mg/kg (Rat, Oral)
LD50 oral	3000 mg/kg bodyweight
LD50 dermal	2500 mg/kg bodyweight

ANISIC ALDEHYDE (AUBEPINE) (123-11-5)

LD50 oral rat	3210 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	3210 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Experimental value, Dermal, 14 day(s))

BENZYL CINNAMATE (103-41-3)

LD50 oral rat	3280 mg/kg bodyweight (Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	3280 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg bodyweight (24 h, Rabbit, Experimental value, Dermal, 14 day(s))

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DIHYDRO COUMARIN (119-84-6)	
LD50 oral rat	1460 mg/kg (Rat, Oral)
LD50 oral	1460 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)

COUMARIN (91-64-5)	
LD50 oral rat	293 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral)
LD50 oral	500 mg/kg bodyweight

DIBENZYL ETHER (103-50-4)	
LD50 oral	2500 mg/kg bodyweight

1,3-benzodioxole-5-carbaldehyde (120-57-0)	
LD50 oral rat	2700 mg/kg (Rat, Oral)
LD50 oral	2700 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg (Rat, Dermal)

METHYL SALICYLATE (119-36-8)	
LD50 oral	890 mg/kg bodyweight

VANILLIN (121-33-5)	
LD50 oral rat	3300 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	3500 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))

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

DIOCTYL ADIPATE (103-23-1)	
IARC group	3 - Not classifiable

LIMONENE (5989-27-5)	
IARC group	3 - Not classifiable

COUMARIN (91-64-5)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

CINNAMYL ALCOHOL (104-54-1)	
LOAEL (animal/female, F0/P)	25 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:
LOAEL (animal/female, F1)	5 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:

STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

beta-Pinene (127-91-3)

LC50 - Fish [1]	0.557 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Weight of evidence, GLP)
EC50 - Crustacea [1]	1.248 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Weight of evidence, GLP)
ErC50 algae	0.826 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, GLP)

BENZYL BENZOATE (120-51-4)

LC50 - Fish [1]	2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	0.475 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

BENZYL ALCOHOL (100-51-6)

LC50 - Fish [1]	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, GLP)
ErC50 algae	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

BENZALDEHYDE (100-52-7)

LC50 - Fish [1]	11.2 mg/l (96 h, Salmo gairdneri, Flow-through system)
EC50 - Crustacea [1]	50 mg/l (24 h, Daphnia magna)
EC50 72h - Algae [1]	34 mg/l (Scenedesmus quadricauda)

DIPROPYLENE GLYCOL (110-98-5)

LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value)
LC50 - Other aquatic organisms [1]	3181 mg/l (Other, 48 h, Xenopus laevis, Fresh water, Experimental value)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Fresh water, Experimental value)

DIOCTYL ADIPATE (103-23-1)

LC50 - Fish [1]	54 – 150 mg/l (96 h, Salmo gairdneri, Static system)
EC50 - Crustacea [1]	> 500 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	> 500 mg/l (DIN 38412-9, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, Biomass)

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LIMONENE (5989-27-5)	
LC50 - Fish [1]	720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	150 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)

CINNAMYL ALCOHOL (104-54-1)	
LC50 - Fish [1]	> 3.5 mg/l Test organisms (species): Poecilia reticulata
LC50 - Fish [2]	9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	20.14945 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.990495 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	44.65693 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)	
LC50 - Fish [1]	35 mg/l

ANISIC ALDEHYDE (AUBEPINE) (123-11-5)	
LC50 - Fish [1]	148.32 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	82.8 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	81.11 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)

BENZYL CINNAMATE (103-41-3)	
LC50 - Fish [1]	> 0.643 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	2.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	0.386 mg/l (EU Method C.3, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

COUMARIN (91-64-5)	
LC50 - Fish [1]	2.94 mg/l (96 h, Pisces, QSAR)
EC50 - Crustacea [1]	24.3 – 36.9 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 96h - Algae [1]	1.452 mg/l (Algae, QSAR)

VANILLIN (121-33-5)	
LC50 - Fish [1]	57 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

beta-Pinene (127-91-3)	
Persistence and degradability	Readily biodegradable in water.

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BENZYL BENZOATE (120-51-4)	
Persistence and degradability	Readily biodegradable in water.

ALPHA PINENE (80-56-8)	
Persistence and degradability	Readily biodegradable in water.

BENZYL ALCOHOL (100-51-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.6 g O ₂ /g substance
Chemical oxygen demand (COD)	2.4 g O ₂ /g substance
ThOD	2.5 g O ₂ /g substance

BENZALDEHYDE (100-52-7)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.62 g O ₂ /g substance
Chemical oxygen demand (COD)	1.98 g O ₂ /g substance
ThOD	2.42 g O ₂ /g substance
BOD (% of ThOD)	0.67

DIPROPYLENE GLYCOL (110-98-5)	
Persistence and degradability	Readily biodegradable in water.

DIOCTYL ADIPATE (103-23-1)	
Persistence and degradability	Readily biodegradable in water.

LIMONENE (5989-27-5)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance

ACETYL PROPIONYL (600-14-6)	
Persistence and degradability	Biodegradability in water: no data available.

ANISIC ALDEHYDE (AUBEPINE) (123-11-5)	
Persistence and degradability	Readily biodegradable in water.

BENZYL CINNAMATE (103-41-3)	
Persistence and degradability	Readily biodegradable in water.

COUMARIN (91-64-5)	
Persistence and degradability	Readily biodegradable in water.

1,3-benzodioxole-5-carbaldehyde (120-57-0)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
ThOD	1.71 g O ₂ /g substance

VANILLIN (121-33-5)	
Persistence and degradability	Readily biodegradable in water.

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12.3. Bioaccumulative potential

beta-Pinene (127-91-3)	
BCF - Other aquatic organisms [1]	1125 (BCFBFAF v3.00, Fresh water, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.425 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation ($500 \leq \text{BCF} \leq 5000$).

BENZYL BENZOATE (120-51-4)	
BCF - Fish [1]	2.286 (BCFBFAF v3.00, Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.97 (Experimental value, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).

ALPHA PINENE (80-56-8)	
BCF - Fish [1]	718 (Pimephales promelas, QSAR)
Partition coefficient n-octanol/water (Log Pow)	4.487 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation ($500 \leq \text{BCF} \leq 5000$).

BENZYL ALCOHOL (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	1 – 1.1 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).

BENZALDEHYDE (100-52-7)	
BCF - Other aquatic organisms [1]	4.2 – 7.8 (Estimated value)
Partition coefficient n-octanol/water (Log Pow)	1.48 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).

DIPROPYLENE GLYCOL (110-98-5)	
Partition coefficient n-octanol/water (Log Pow)	-0.462 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
Bioaccumulative potential	Bioaccumulation: not applicable.

DIOCTYL ADIPATE (103-23-1)	
BCF - Fish [1]	27 (Other, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)
BCF - Fish [2]	3.162 (Calculated value)
Partition coefficient n-octanol/water (Log Pow)	8.1 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation ($\text{BCF} < 500$).

LIMONENE (5989-27-5)	
BCF - Fish [1]	864.8 – 1022 (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).

ACETYL PROPIONYL (600-14-6)	
Bioaccumulative potential	No bioaccumulation data available.

ANISIC ALDEHYDE (AUBEPINE) (123-11-5)	
Partition coefficient n-octanol/water (Log Pow)	1.56 (Experimental value, Equivalent or similar to OECD 107, 25 °C)

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Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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BENZYL CINNAMATE (103-41-3)

Partition coefficient n-octanol/water (Log Pow)	4.18 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23.7 °C)
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).

DIHYDRO COUMARIN (119-84-6)

Partition coefficient n-octanol/water (Log Pow)	0.97
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

COUMARIN (91-64-5)

Partition coefficient n-octanol/water (Log Pow)	1.39 (QSAR, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

1,3-benzodioxole-5-carbaldehyde (120-57-0)

Partition coefficient n-octanol/water (Log Pow)	1.05
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

VANILLIN (121-33-5)

Partition coefficient n-octanol/water (Log Pow)	1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

beta-Pinene (127-91-3)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.01 – 3.82 (log Koc, Calculated value)
Ecology - soil	Low potential for mobility in soil.

BENZYL BENZOATE (120-51-4)

Surface tension	0.027 N/m (210 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.

ALPHA PINENE (80-56-8)

Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
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BENZYL ALCOHOL (100-51-6)

Surface tension	39 mN/m (20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

BENZALDEHYDE (100-52-7)

Surface tension	0.04 N/m (20 °C)
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DIPROPYLENE GLYCOL (110-98-5)

Surface tension	71.4 mN/m (22 °C, 1.01 g/l)
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.78 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

DIIOCTYL ADIPATE (103-23-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.687 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Low potential for mobility in soil.

LIMONENE (5989-27-5)

Ecology - soil	Adsorbs into the soil.
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ANISIC ALDEHYDE (AUBEPINE) (123-11-5)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

BENZYL CINNAMATE (103-41-3)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.913 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for mobility in soil.

COUMARIN (91-64-5)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.63 (log Koc, QSAR)
Ecology - soil	Highly mobile in soil.

VANILLIN (121-33-5)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.438 (log Koc, Experimental value)
Ecology - soil	Low potential for mobility in soil.

12.5. Results of PBT and vPvB assessment

Component

beta-Pinene (127-91-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
BENZYL BENZOATE (120-51-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
ALPHA PINENE (80-56-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
BENZYL ALCOHOL (100-51-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
DIPROPYLENE GLYCOL (110-98-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
DIIOCTYL ADIPATE (103-23-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
LIMONENE (5989-27-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
ANISIC ALDEHYDE (AUBEPINE) (123-11-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
BENZYL CINNAMATE (103-41-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
COUMARIN (91-64-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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VANILLIN (121-33-5)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

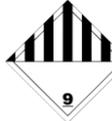
SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE ; COUMARIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE ; COUMARIN)	Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE ; COUMARIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE ; COUMARIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE ; COUMARIN)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE ; COUMARIN), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE ; COUMARIN), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE ; COUMARIN), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE ; COUMARIN), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE ; COUMARIN), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6
Special provisions (ADR) : 274, 335, 375, 601
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBV

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Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code (ADR) : -
EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197, A215
ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6
Special provisions (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31

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Colis express (express parcels) (RID) : CE8

Hazard identification number (RID) : 90

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant

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ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 2	Flammable solids, Category 2
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

SDS EU (Belle Aire)

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.