

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Detail King Fresh & Clean Scent Concentrate

Version number: GHS 1.0

Date of compilation: 2022-06-03

SECTION 1: Identification

1.1 Product identifier

Trade name **Detail King Fresh & Clean Scent Concentrate**

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

Relevant identified uses Professional use
Industrial use

HS code 3307.49.00.

1.3 Details of the supplier of the safety data sheet

Detail King
947-A-Old Frankstown Rd.
Pittsburgh, PA 15239

1-888-314-0847
nvacco@detailking.com

1.4 Emergency telephone number

Emergency information service USA 1.800.535.5053, INTL 1.352.323.3500
24 hour emergency number

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.10	acute toxicity (oral)	4	Acute Tox. 4	H302
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.6	carcinogenicity	2	Carc. 2	H351
B.6	flammable liquid	4	Flam. Liq. 4	H227

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word **danger**

- Pictograms

GHS05, GHS07,
GHS08



- Hazard statements

H227 Combustible liquid.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.

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- Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

Alcohols, C9-11 ethoxylated, α -Amylcinnamaldehyde, musk ketone, 4-tert-butylcyclohexyl acetate, benzyl salicylate, Geraniol, Eugenol, lime terpenes, 2-methyl undecenal, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, phenylacetaldehyde, petitgrain oil, mandarin oil, Citronellal

2.3 Other hazards

This material is combustible, but will not ignite readily.

Hazards not otherwise classified

May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).

Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Endocrine disrupting properties

Contains an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
Alcohols, C9-11 ethoxylated	CAS No 68439-46-3	55 - < 70	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Eye Dam. 1 / H318
sodium methyl-2 sulfolaurate	CAS No 149458-07-1	3 - < 12	Skin Irrit. 2 / H315 Eye Irrit. 2A / H319
linalool	CAS No 78-70-6	1 - < 3	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319
α -Amylcinnamaldehyde	CAS No 122-40-7	1 - < 3	Skin Sens. 1 / H317
amyl salicylate	CAS No 2050-08-0	1 - < 3	Acute Tox. 4 / H302

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Name of substance	Identifier	Wt%	Classification acc. to GHS
benzyl salicylate	CAS No 118-58-1	1 - < 3	Eye Irrit. 2 / H319 Skin Sens. 1B / H317
Benzyl acetate	CAS No 140-11-4 RTECS No AF5075000	1 - < 3	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335
Linalyl acetate	CAS No 115-95-7	1 - < 3	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319
Phenethyl alcohol	CAS No 60-12-8	1 - < 3	Acute Tox. 4 / H302 Eye Irrit. 2 / H319
Dihydromyrcenol	CAS No 18479-58-8	1 - < 3	Eye Irrit. 2 / H319 Flam. Liq. 4 / H227
4-tert-butylcyclohexyl acetate	CAS No 32210-23-4	1 - < 3	Skin Sens. 1B / H317
methanol	CAS No 67-56-1	0.1 - < 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 STOT SE 1 / H370 Flam. Liq. 2 / H225
mandarin oil	CAS No 8008-31-9 84929-38-4	0.1 - < 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
Citronellal	CAS No 106-23-0	0.1 - < 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317
musk ketone	CAS No 81-14-1	0.1 - < 1	Acute Tox. 4 / H332 Carc. 2 / H351
1-methoxy-4-methylbenzene	CAS No 104-93-8	0.1 - < 1	Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Repr. 2 / H361d Flam. Liq. 4 / H227
lime terpenes	CAS No 68917-71-5	0.1 - < 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
2-methyl undecenal	CAS No 110-41-8	0.1 - < 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Flam. Liq. 4 / H227
phenylacetaldehyde	CAS No 122-78-1	0.1 - < 1	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1B / H317 Flam. Liq. 4 / H227
petitgrain oil	CAS No 8014-17-3 8016-38-4 68916-04-1 72968-50-4	0.1 - < 1	Acute Tox. 1 / H310 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	CAS No 68039-49-6	0.1 - < 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Flam. Liq. 4 / H227
Eugenol	CAS No 97-53-0	0.1 - < 1	Eye Irrit. 2 / H319 Skin Sens. 1B / H317

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Name of substance	Identifier	Wt%	Classification acc. to GHS
Geraniol	CAS No 106-24-1	0.1 - < 1	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317

Hazardous ingredients, Consideration of other advice

This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.

Exact percentage of ingredients is withheld as a trade secret.

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

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Control of the effects

Protect against external exposure, such as frost

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	benzyl acetate	140-11-4	PEL (CA)	10	61						Cal/OSHA PEL
US	benzyl acetate	140-11-4	TLV®	10							AC-GIH® 2019
US	methanol	67-56-1	TLV®	200		250				H	AC-GIH® 2019
US	methyl alcohol	67-56-1	REL	200 (10 h)	260 (10 h)	250	325				NIOSH REL
US	methyl alcohol	67-56-1	PEL	200	260						29 CFR 1910.1000
US	methyl alcohol (methanol)	67-56-1	PEL (CA)	200	260	250	325	1,000			Cal/OSHA PEL
US	diethyl phthalate	84-66-2	PEL (CA)		5						Cal/OSHA PEL
US	diethyl phthalate	84-66-2	REL		5 (10 h)						NIOSH REL
US	diethyl phthalate	84-66-2	TLV®		5						AC-GIH® 2019

Notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur

H

absorbed through the skin

STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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Biological limit values						
Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	methanol	methanol		BEI®	15 mg/l	ACGIH® 2019

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Alcohols, C9-11 ethoxylated	68439-46-3	DNEL	2,080 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, C9-11 ethoxylated	68439-46-3	DNEL	294 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
benzyl salicylate	118-58-1	DNEL	0.9 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
benzyl salicylate	118-58-1	DNEL	3.2 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Phenethyl alcohol	60-12-8	DNEL	60 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Phenethyl alcohol	60-12-8	DNEL	21 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Benzyl acetate	140-11-4	DNEL	12 mg/kg	human, dermal	worker (industry)	acute - systemic effects
Benzyl acetate	140-11-4	DNEL	44 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Benzyl acetate	140-11-4	DNEL	9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl acetate	140-11-4	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.5 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
amyl salicylate	2050-08-0	DNEL	3.2 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
amyl salicylate	2050-08-0	DNEL	0.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
linalool	78-70-6	DNEL	2.8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
linalool	78-70-6	DNEL	16 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
methanol	67-56-1	DNEL	130 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

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methanol	67-56-1	DNEL	130 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
methanol	67-56-1	DNEL	130 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
methanol	67-56-1	DNEL	130 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
methanol	67-56-1	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
methanol	67-56-1	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
mandarin oil	8008-31-9 84929-38-4	DNEL	23 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
mandarin oil	8008-31-9 84929-38-4	DNEL	6.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
mandarin oil	8008-31-9 84929-38-4	DNEL	186 µg/cm ²	human, dermal	worker (industry)	acute - local effects
Citronellal	106-23-0	DNEL	1.7 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Citronellal	106-23-0	DNEL	9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
musk ketone	81-14-1	DNEL	0.25 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
musk ketone	81-14-1	DNEL	0.56 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	162 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	12 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	11,800 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Eugenol	97-53-0	DNEL	6 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Eugenol	97-53-0	DNEL	21 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1-methoxy-4-methylbenzene	104-93-8	DNEL	1.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1-methoxy-4-methylbenzene	104-93-8	DNEL	7.1 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
1-methoxy-4-methylbenzene	104-93-8	DNEL	0.47 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1-methoxy-4-methylbenzene	104-93-8	DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
lime terpenes	68917-71-5	DNEL	19 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
lime terpenes	68917-71-5	DNEL	5.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
lime terpenes	68917-71-5	DNEL	186 µg/cm ²	human, dermal	worker (industry)	acute - local effects
2-methyl undecenal	110-41-8	DNEL	25 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-methyl undecenal	110-41-8	DNEL	7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
phenylacetaldehyde	122-78-1	DNEL	4.9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
phenylacetaldehyde	122-78-1	DNEL	0.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.1 mg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	1.4 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	14 mg/kg	benthic organisms	sediment	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	14 mg/kg	pelagic organisms	sediment	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.014 mg/l	aquatic organisms	water	intermittent release
benzyl salicylate	118-58-1	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.0001 mg/l	aquatic organisms	marine water	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.58 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.058 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	80 mg/kg	aquatic organisms	water	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.12 mg/kg	terrestrial organisms	soil	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.01 mg/l	aquatic organisms	water	intermittent release
Phenethyl alcohol	60-12-8	PNEC	0.22 mg/l	aquatic organisms	freshwater	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Phenethyl alcohol	60-12-8	PNEC	0.021 mg/l	aquatic organisms	marine water	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	2.2 mg/l	aquatic organisms	water	intermittent release
Phenethyl alcohol	60-12-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	1.5 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	0.15 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	0.16 mg/kg	terrestrial organisms	soil	short-term (single instance)
4-tert-butylcyclohexyl acetate	32210-23-4	PNEC	53 µg/l	aquatic organisms	water	intermittent release
4-tert-butylcyclohexyl acetate	32210-23-4	PNEC	5.3 µg/l	aquatic organisms	freshwater	short-term (single instance)
4-tert-butylcyclohexyl acetate	32210-23-4	PNEC	0.53 µg/l	aquatic organisms	marine water	short-term (single instance)
4-tert-butylcyclohexyl acetate	32210-23-4	PNEC	12 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4-tert-butylcyclohexyl acetate	32210-23-4	PNEC	2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
4-tert-butylcyclohexyl acetate	32210-23-4	PNEC	0.21 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
4-tert-butylcyclohexyl acetate	32210-23-4	PNEC	0.42 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.04 mg/l	aquatic organisms	water	intermittent release
Benzyl acetate	140-11-4	PNEC	0.018 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	8.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.53 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.053 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.094 mg/kg	terrestrial organisms	soil	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.61 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.061 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Linalyl acetate	115-95-7	PNEC	0.12 mg/kg	terrestrial organisms	soil	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.11 mg/l	aquatic organisms	water	intermittent release
Linalyl acetate	115-95-7	PNEC	0.0011 mg/l	aquatic organisms	marine water	short-term (single instance)
amyl salicylate	2050-08-0	PNEC	0.77 µg/l	aquatic organisms	freshwater	short-term (single instance)
amyl salicylate	2050-08-0	PNEC	0.077 µg/l	aquatic organisms	marine water	short-term (single instance)
amyl salicylate	2050-08-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
amyl salicylate	2050-08-0	PNEC	0.39 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
amyl salicylate	2050-08-0	PNEC	0.039 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
amyl salicylate	2050-08-0	PNEC	1.8 mg/kg	terrestrial organisms	soil	short-term (single instance)
linalool	78-70-6	PNEC	7.8 mg/kg	aquatic organisms	water	short-term (single instance)
linalool	78-70-6	PNEC	2 mg/l	aquatic organisms	water	intermittent release
linalool	78-70-6	PNEC	0.2 mg/l	aquatic organisms	freshwater	short-term (single instance)
linalool	78-70-6	PNEC	0.02 mg/l	aquatic organisms	marine water	short-term (single instance)
linalool	78-70-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
linalool	78-70-6	PNEC	2.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
linalool	78-70-6	PNEC	0.22 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
linalool	78-70-6	PNEC	0.33 mg/kg	terrestrial organisms	soil	short-term (single instance)
methanol	67-56-1	PNEC	100 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
methanol	67-56-1	PNEC	77 mg/kg	benthic organisms	sediment	short-term (single instance)
methanol	67-56-1	PNEC	7.7 mg/kg	pelagic organisms	sediment	short-term (single instance)
methanol	67-56-1	PNEC	1,540 mg/l	aquatic organisms	water	intermittent release
methanol	67-56-1	PNEC	21 mg/l	aquatic organisms	freshwater	short-term (single instance)
methanol	67-56-1	PNEC	2.1 mg/l	aquatic organisms	marine water	short-term (single instance)
methanol	67-56-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
methanol	67-56-1	PNEC	77 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
methanol	67-56-1	PNEC	7.7 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
methanol	67-56-1	PNEC	100 mg/kg	terrestrial organisms	soil	short-term (single instance)
mandarin oil	8008-31-9 84929-38-4	PNEC	5.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
mandarin oil	8008-31-9 84929-38-4	PNEC	0.54 µg/l	aquatic organisms	marine water	short-term (single instance)
mandarin oil	8008-31-9 84929-38-4	PNEC	2.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
mandarin oil	8008-31-9 84929-38-4	PNEC	1.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
mandarin oil	8008-31-9 84929-38-4	PNEC	0.13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
mandarin oil	8008-31-9 84929-38-4	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
Citronellal	106-23-0	PNEC	0.0087 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citronellal	106-23-0	PNEC	0.00087 mg/l	aquatic organisms	marine water	short-term (single instance)
Citronellal	106-23-0	PNEC	4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citronellal	106-23-0	PNEC	0.16 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citronellal	106-23-0	PNEC	0.016 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citronellal	106-23-0	PNEC	0.027 mg/kg	terrestrial organisms	soil	short-term (single instance)
Citronellal	106-23-0	PNEC	0.087 mg/l	aquatic organisms	water	intermittent release
musk ketone	81-14-1	PNEC	0.24 µg/l	aquatic organisms	freshwater	short-term (single instance)
musk ketone	81-14-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
musk ketone	81-14-1	PNEC	62 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
musk ketone	81-14-1	PNEC	6.2 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
musk ketone	81-14-1	PNEC	12 µg/kg	terrestrial organisms	soil	short-term (single instance)
Geraniol	106-24-1	PNEC	0.11 mg/l	aquatic organisms	water	intermittent release
Geraniol	106-24-1	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Geraniol	106-24-1	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Geraniol	106-24-1	PNEC	0.7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Geraniol	106-24-1	PNEC	0.12 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.011 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.017 mg/kg	terrestrial organisms	soil	short-term (single instance)
Eugenol	97-53-0	PNEC	1.1 µg/l	aquatic organisms	freshwater	short-term (single instance)
Eugenol	97-53-0	PNEC	0.11 µg/l	aquatic organisms	marine water	short-term (single instance)
Eugenol	97-53-0	PNEC	0.081 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Eugenol	97-53-0	PNEC	0.0081 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Eugenol	97-53-0	PNEC	0.016 mg/kg	terrestrial organisms	soil	short-term (single instance)
Eugenol	97-53-0	PNEC	11 µg/l	aquatic organisms	water	intermittent release
1-methoxy-4-methylbenzene	104-93-8	PNEC	27 µg/l	aquatic organisms	freshwater	short-term (single instance)
1-methoxy-4-methylbenzene	104-93-8	PNEC	2.7 µg/l	aquatic organisms	marine water	short-term (single instance)
1-methoxy-4-methylbenzene	104-93-8	PNEC	0.3 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1-methoxy-4-methylbenzene	104-93-8	PNEC	1.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1-methoxy-4-methylbenzene	104-93-8	PNEC	0.12 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1-methoxy-4-methylbenzene	104-93-8	PNEC	0.22 mg/kg	terrestrial organisms	soil	short-term (single instance)
lime terpenes	68917-71-5	PNEC	5.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
lime terpenes	68917-71-5	PNEC	0.54 µg/l	aquatic organisms	marine water	short-term (single instance)
lime terpenes	68917-71-5	PNEC	2.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
lime terpenes	68917-71-5	PNEC	1.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
lime terpenes	68917-71-5	PNEC	0.13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
lime terpenes	68917-71-5	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-methyl undecenal	110-41-8	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)

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2-methyl undecenal	110-41-8	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
2-methyl undecenal	110-41-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-methyl undecenal	110-41-8	PNEC	0.072 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-methyl undecenal	110-41-8	PNEC	0.007 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-methyl undecenal	110-41-8	PNEC	0.014 mg/kg	terrestrial organisms	soil	short-term (single instance)
phenylacetaldehyde	122-78-1	PNEC	1.6 µg/l	aquatic organisms	freshwater	short-term (single instance)
phenylacetaldehyde	122-78-1	PNEC	0.16 µg/l	aquatic organisms	marine water	short-term (single instance)
phenylacetaldehyde	122-78-1	PNEC	0.15 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
phenylacetaldehyde	122-78-1	PNEC	9.9 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
phenylacetaldehyde	122-78-1	PNEC	0.99 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
phenylacetaldehyde	122-78-1	PNEC	1 µg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	colorless to pale amber
Particle	not relevant (liquid)
Odor	fresh

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	77 °C closed cup
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	0.75 vol%
- Upper explosion limit (UEL)	8.4 vol%
Vapor pressure	10 kPa at 144 °C
Density	1 – 1 g/ml
Vapor density	this information is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	260 °C
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none
Temperature class (USA, acc. to NEC 500)	T2C (maximum permissible surface temperature on the equipment: 230 °C)

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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Harmful if swallowed.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

- Acute toxicity estimate (ATE)

Oral 1,676 mg/kg

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Alcohols, C9-11 ethoxylated	68439-46-3	oral	1,200 mg/kg
Alcohols, C9-11 ethoxylated	68439-46-3	dermal	2,000 mg/kg
Phenethyl alcohol	60-12-8	oral	1,603 mg/kg
amyl salicylate	2050-08-0	oral	2,000 mg/kg
methanol	67-56-1	oral	100 mg/kg
methanol	67-56-1	inhalation: gas	700 ppmV/4h
methanol	67-56-1	inhalation: dust/mist	0.5 mg/l/4h

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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
musk ketone	81-14-1	inhalation: dust/mist	>3 mg/l/4h
1-methoxy-4-methylbenzene	104-93-8	oral	1,920 mg/kg
1-methoxy-4-methylbenzene	104-93-8	inhalation: vapor	>6.1 mg/l/4h
phenylacetaldehyde	122-78-1	oral	1,550 mg/kg
petitgrain oil	8014-17-3 8016-38-4 68916-04-1 72968-50-4	dermal	8.5 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
Name of substance	CAS No	Classification	Number
Eugenol	97-53-0	3	
Benzyl acetate	140-11-4	3	

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Alcohols, C9-11 ethoxylated	68439-46-3	LC50	8.5 mg/l	fathead minnow	96 h
Alcohols, C9-11 ethoxylated	68439-46-3	EC50	5.3 mg/l	daphnia magna	48 h
Alcohols, C9-11 ethoxylated	68439-46-3	ErC50	1 – 10 mg/l	algae	96 h
sodium methyl-2 sulfolaurate	149458-07-1	LC50	4.7 mg/l	fish	96 h
sodium methyl-2 sulfolaurate	149458-07-1	EC50	1.8 mg/l	algae	72 h
sodium methyl-2 sulfolaurate	149458-07-1	EC50	6.3 mg/l	daphnia	48 h
benzyl salicylate	118-58-1	LC50	1 mg/l	fish	96 h
benzyl salicylate	118-58-1	EC50	1.2 mg/l	aquatic invertebrates	48 h
benzyl salicylate	118-58-1	ErC50	1.3 mg/l	algae	72 h
Phenethyl alcohol	60-12-8	LC50	<464 mg/l	fish	96 h
Phenethyl alcohol	60-12-8	EC50	287 mg/l	aquatic invertebrates	48 h
Phenethyl alcohol	60-12-8	ErC50	1.3 g/l	algae	72 h
4-tert-butylcyclohexyl acetate	32210-23-4	LC50	8.6 mg/l	fish	96 h
4-tert-butylcyclohexyl acetate	32210-23-4	EC50	5.3 mg/l	aquatic invertebrates	48 h
4-tert-butylcyclohexyl acetate	32210-23-4	ErC50	22 mg/l	algae	72 h
Benzyl acetate	140-11-4	LC50	4 mg/l	fish	96 h
Benzyl acetate	140-11-4	EC50	25 mg/l	aquatic invertebrates	24 h
Benzyl acetate	140-11-4	ErC50	110 mg/l	algae	72 h
Linalyl acetate	115-95-7	LC50	11 mg/l	fish	96 h
Linalyl acetate	115-95-7	ErC50	62 mg/l	algae	72 h
Linalyl acetate	115-95-7	EC50	15 mg/l	aquatic invertebrates	48 h
amyl salicylate	2050-08-0	LC50	1.3 mg/l	fish	96 h
amyl salicylate	2050-08-0	EC50	1.4 mg/l	aquatic invertebrates	24 h
amyl salicylate	2050-08-0	ErC50	0.77 mg/l	algae	72 h
linalool	78-70-6	LC50	28 mg/l	fish	96 h
linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 h

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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
linalool	78-70-6	ErC50	157 mg/l	algae	96 h
methanol	67-56-1	LC50	15,400 mg/l	fish	96 h
methanol	67-56-1	EC50	12,700 mg/l	fish	96 h
methanol	67-56-1	ErC50	22,000 mg/l	algae	96 h
mandarin oil	8008-31-9 84929-38-4	LL50	>100 mg/l	fish	96 h
mandarin oil	8008-31-9 84929-38-4	EL50	8.9 mg/l	aquatic invertebrates	48 h
mandarin oil	8008-31-9 84929-38-4	ErC50	0.61 mg/l	algae	72 h
Citronellal	106-23-0	LC50	22 mg/l	fish	96 h
Citronellal	106-23-0	EC50	8.7 mg/l	aquatic invertebrates	48 h
Citronellal	106-23-0	ErC50	13 mg/l	algae	72 h
musk ketone	81-14-1	LC50	>0.39 mg/l	fish	96 h
musk ketone	81-14-1	EC50	>0.43 mg/l	aquatic invertebrates	48 h
musk ketone	81-14-1	ErC50	244 µg/l	algae	72 h
Geraniol	106-24-1	LC50	22 mg/l	fish	96 h
Geraniol	106-24-1	EC50	11 mg/l	aquatic invertebrates	48 h
Geraniol	106-24-1	ErC50	13 mg/l	algae	72 h
Eugenol	97-53-0	LC50	13 mg/l	fish	48 h
Eugenol	97-53-0	EC50	1.1 mg/l	aquatic invertebrates	48 h
Eugenol	97-53-0	ErC50	24 mg/l	algae	72 h
1-methoxy-4-methylbenzene	104-93-8	LC50	68 mg/l	fish	96 h
1-methoxy-4-methylbenzene	104-93-8	EC50	27 mg/l	aquatic invertebrates	48 h
1-methoxy-4-methylbenzene	104-93-8	ErC50	>500 mg/l	algae	72 h
lime terpenes	68917-71-5	LL50	>18 mg/l	fish	96 h
lime terpenes	68917-71-5	EL50	5 mg/l	aquatic invertebrates	48 h
2-methyl undecenal	110-41-8	LC50	>0.46 mg/l	fish	24 h
2-methyl undecenal	110-41-8	EC50	0.21 mg/l	aquatic invertebrates	48 h
2-methyl undecenal	110-41-8	ErC50	0.18 mg/l	algae	72 h
phenylacetaldehyde	122-78-1	LC50	>6.2 mg/l	fish	96 h
phenylacetaldehyde	122-78-1	EC50	20 mg/l	aquatic invertebrates	48 h
phenylacetaldehyde	122-78-1	ErC50	1.6 mg/l	algae	72 h

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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
petitgrain oil	8014-17-3 8016-38-4 68916-04-1 72968-50-4	EL50	1.4 mg/l	aquatic invertebrates	24 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
sodium methyl-2 sulfolaurate	149458-07-1	EC50	0.25 – 0.8 mg/l	daphnia magna	21 d
benzyl salicylate	118-58-1	EC50	1.2 mg/l	aquatic invertebrates	24 h
benzyl salicylate	118-58-1	LC50	4.3 mg/l	aquatic invertebrates	24 h
Phenethyl alcohol	60-12-8	EC50	>100 mg/l	microorganisms	3 h
4-tert-butylcyclohexyl acetate	32210-23-4	EC50	302 mg/l	microorganisms	3 h
Benzyl acetate	140-11-4	EC50	855 mg/l	microorganisms	3 h
Linalyl acetate	115-95-7	LC50	11 mg/l	fish	20 h
linalool	78-70-6	LC50	28 mg/l	fish	24 h
linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
musk ketone	81-14-1	EC50	>1,000 mg/l	microorganisms	3 h
Geraniol	106-24-1	EC50	70 mg/l	microorganisms	30 min
Eugenol	97-53-0	LC50	13 mg/l	fish	24 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Contains an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

DOT UN 3082

IMDG-Code UN 3082

ICAO-TI UN 3082

14.2 UN proper shipping name

DOT Environmentally hazardous substance, liquid, n.o.s.

IMDG-Code ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.

ICAO-TI Environmentally hazardous substance, liquid, n.o.s.

14.3 Transport hazard class(es)

DOT 9

IMDG-Code 9

ICAO-TI 9

14.4 Packing group

DOT III

IMDG-Code III

ICAO-TI III

14.5 Environmental hazards

hazardous to the aquatic environment

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not regulated under DOT until packaged in single containers larger than 119 gallons each - liquid, or 882 lbs each - solid.

Particulars in the shipper's declaration UN3082, Environmentally hazardous substance, li-
quid, n.o.s., 9, III

Reportable quantity (RQ) 714,187 lbs (324,241 kg) (methanol)

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Danger label(s)

9, fish and tree



Environmental hazards

YES (hazardous to the aquatic environment)

Special provisions (SP)

8, 146, 173, 335, IB3, T4, TP1, TP29

ERG No

171

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant

YES (hazardous to the aquatic environment) (4-tert-butylcyclohexyl acetate)

Danger label(s)

9, fish and tree



Special provisions (SP)

274, 335, 969

Excepted quantities (EQ)

E1

Limited quantities (LQ)

5 L

EmS

F-A, S-F

Stowage category

A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards

YES (hazardous to the aquatic environment)

Danger label(s)

9, fish and tree



Special provisions (SP)

A97, A158, A197

Excepted quantities (EQ)

E1

Limited quantities (LQ)

30 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name of substance	CAS No	Remarks	Effective date
methanol	67-56-1		1986-12-31

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Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
methanol	67-56-1		3 4	5000 (2270)

Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
Alcohols, C9-11 ethoxylated	68439-46-3	surfactant	
water	7732-18-5	carrier fluid / dis-solver	
diethyl phthalate	84-66-2	fragrance	CDC 4th National Exposure Report CECBP - Priority Chemicals CWA 303(c) CWA 303(d)
diethyl phthalate	84-66-2	fragrance	Nonfunctional constituents
sodium methyl-2 sulfolaurate	149458-07-1	surfactant	
hexyl cinnamic aldehyde	101-86-0	fragrance	EU Fragrance Allergens
4,7-Methano-1H-indenol, 3a,4,5,6,7,7a-hexahydro-, acetate	54830-99-8	fragrance	
myrac aldehyde	37677-14-8	fragrance	
linalool	78-70-6	fragrance	EU Fragrance Allergens
α -Amylcinnamaldehyde	122-40-7	fragrance	EU Fragrance Allergens
amyl salicylate	2050-08-0	fragrance	
benzyl salicylate	118-58-1	fragrance	
Benzyl acetate	140-11-4	fragrance	
Linalyl acetate	115-95-7	fragrance	
Phenethyl alcohol	60-12-8	fragrance	
Dihydromyrcenol	18479-58-8	fragrance	
4-tert-butylcyclohexyl acetate	32210-23-4	fragrance	
methanol	67-56-1	alcohols	CA TACs NTP OHAT - Repr. or Dev. Toxicants OEHHA RELs Prop 65
sodium sulfate	7757-82-6	cleaning agent	
mandarin oil	8008-31-9 84929-38-4	fragrance	
Citronellal	106-23-0	fragrance	

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Name of substance	CAS No	Functionality	Authoritative Lists
musk ketone	81-14-1	fragrance	
styrallyl acetate	93-92-5	fragrance	
1-methoxy-4-methylbenzene	104-93-8	fragrance	
lime terpenes	68917-71-5	fragrance	
iso-eugenol	97-54-1	fragrance	EU Fragrance Allergens
2-methyl undecenal	110-41-8	fragrance	
10-undecenal	112-45-8	fragrance	
phenylacetaldehyde	122-78-1	fragrance	
petitgrain oil	8014-17-3 8016-38-4 68916-04-1 72968-50-4	fragrance	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	fragrance	
Eugenol	97-53-0	fragrance	EU Fragrance Allergens
Geraniol	106-24-1	fragrance	EU Fragrance Allergens

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
methanol	67-56-1				1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
Benzyl acetate	140-11-4	A	

Legend

A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
methanol	67-56-1		TE F3
Benzyl acetate	140-11-4		F2

Legend

F2 Flammable - Second Degree
F3 Flammable - Third Degree
TE Teratogenic

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
METHANOL	67-56-1	E

Legend

E Environmental hazard

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California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals					
Name of substance	Name acc. to inventory	CAS No	Wt%	Remarks	Type of the toxicity
methanol	methanol	67-56-1	0.7		developmental

VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 13 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 13 %

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
CA	DSL	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
US	TSCA	all ingredients are listed

Legend

DSL Domestic Substances List (DSL)
REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act

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15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Cal ARB	California Air Resources Board
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
EmS	Emergency Schedule
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
HS	Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association

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Abbr.	Descriptions of used abbreviations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LHS	Lower hazard substance
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.