



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Vent Clip Exotic Frangipani

Version number: GHS 6.2
Replaces version of: 2020-10-21 (GHS 5)

Revision: 2023-09-11

SECTION 1: Identification

1.1 Product identifier

Trade name

Armor All Vent Clip Exotic Frangipani

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

Relevant identified uses

Consumer uses: Air Freshener

1.3 Details of the supplier of the safety data sheet

Energizer Manufacturing, Inc.
25225 Detroit Rd.
Westlake OH 44145
United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)
e-mail: Autocare.regulatory@energizer.com
Website: <http://data.energizer.com>

1.4 Emergency telephone number

Emergency information service

FOR EMERGENCY in USA & Canada CALL +1 800 255-3924 / For International CALL +1 813 248 0585
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

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.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.7	reproductive toxicity	2	Repr. 2	H361d
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



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

- Signal word warning

- Pictograms

GHS07, GHS08



- Hazard statements

H227 Combustible liquid.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261 Avoid breathing mist/vapors.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/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.
P308+P313 If exposed or concerned: Get medical advice/attention.
P321 Specific treatment (see 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 Take off contaminated clothing and wash before reuse.
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

(E)-2-methoxy-4-(prop-1-enyl)phenol, 4-methylanisole, Linalool, (R)-p-mentha-1,8-diene, Mayol, Cyc-lamal, Floralozone, Caryophyllene, Citronellol, Coumarin, Melonal, Nerol, Hexyl salicylate, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, [1 α (E),2 β]-Damascone, Isoeugenol, 1-Penten-3-One, 1-(2,6,6-Trimethyl-1-Cyclohexen- 1-Yl)-, (1e)-, Dimethyltetrahydro Benzaldehyde

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2.3 Other hazards

Hazards not otherwise classified

- May be harmful if swallowed (GHS category 5: acutely toxic - oral).
- May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).
- May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).
- Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).
- Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain 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	Pictograms
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	CAS No 319002-92-1	10 - < 25	Flam. Liq. 4 / H227	
Linalool	CAS No 78-70-6	10 - < 25	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Florosol	CAS No 63500-71-0	10 - < 25	Eye Irrit. 2 / H319	
Phenethyl alcohol	CAS No 60-12-8	10 - < 25	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Eye Irrit. 2 / H319	
Distillates (petroleum), hydrotreated light	CAS No 64742-47-8	5 - < 10	Acute Tox. 3 / H331 STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Ionone, methyl-	CAS No 1335-46-2	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Mayol	CAS No 5502-75-0	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	
Floralozone	CAS No 67634-15-5	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	
(R)-p-mentha-1,8-diene	CAS No 5989-27-5	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Cyclamal	CAS No 103-95-7	< 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
1-Penten-3-One, 1-(2,6,6-Trimethyl-1-Cyclohexen-1-Yl)-, (1e)-	CAS No 63429-28-7	< 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	
(E)-2-methoxy-4-(prop-1-enyl)phenol	CAS No 5932-68-3	< 1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1A / H317 STOT SE 3 / H335	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	CAS No 68039-49-6	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Flam. Liq. 4 / H227	
Nerol	CAS No 106-25-2	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
4-methylanisole	CAS No 104-93-8	< 1	Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Repr. 2 / H361d Flam. Liq. 4 / H227	
Melonal	CAS No 106-72-9	< 1	Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Caryophyllene	CAS No 87-44-5	< 1	Skin Sens. 1B / H317 Asp. Tox. 1 / H304	
Citronellol	CAS No 106-22-9	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Coumarin	CAS No 91-64-5	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Skin Sens. 1 / H317	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Isoeugenol	CAS No 97-54-1	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 STOT SE 3 / H335	
Hexyl salicylate	CAS No 6259-76-3	< 1	Skin Sens. 1B / H317	
[1α(E),2β]-Damascone	CAS No 57378-68-4 71048-82-3	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1A / H317	
Dimethyltetrahydro Benza- ldehyde	CAS No 68737-61-1	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317	

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. In case of respiratory tract irritation, consult a physician. 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



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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.

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.



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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.

- Ventilation requirements

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

7.3 Specific end use(s)

See section 16 for a general overview.



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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® 2023

Notation

Ceiling-C
STEL

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

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
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	DNEL	8.8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16.5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	24.58 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	3.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Florosol	63500-71-0	DNEL	44.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects



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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
Florosol	63500-71-0	DNEL	41.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Phenethyl alcohol	60-12-8	DNEL	59.9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Phenethyl alcohol	60-12-8	DNEL	21.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Ionone, methyl-	1335-46-2	DNEL	26.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Ionone, methyl-	1335-46-2	DNEL	14.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Mayol	5502-75-0	DNEL	6.63 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Mayol	5502-75-0	DNEL	1.88 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Floralozone	67634-15-5	DNEL	14.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Floralozone	67634-15-5	DNEL	4.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Floralozone	67634-15-5	DNEL	5,295 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	66.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Cyclamal	103-95-7	DNEL	7.43 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Cyclamal	103-95-7	DNEL	1.23 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Cyclamal	103-95-7	DNEL	0.35 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
4-methylanisole	104-93-8	DNEL	1.64 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
4-methylanisole	104-93-8	DNEL	7.05 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
4-methylanisole	104-93-8	DNEL	0.467 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
4-methylanisole	104-93-8	DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Melonal	106-72-9	DNEL	7.05 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Melonal	106-72-9	DNEL	21.16 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Melonal	106-72-9	DNEL	17.63 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Melonal	106-72-9	DNEL	52.89 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Melonal	106-72-9	DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Melonal	106-72-9	DNEL	170 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Nerol	106-25-2	DNEL	4.4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Nerol	106-25-2	DNEL	1.25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	DNEL	6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	DNEL	1.71 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	161.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Citronellol	106-22-9	DNEL	327.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	2,950 µg/cm ²	human, dermal	worker (industry)	acute - local effects
Coumarin	91-64-5	DNEL	6.78 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	0.79 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



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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
Hexyl salicylate	6259-76-3	DNEL	20,830 mg/kg	human, dermal	worker (industry)	acute - systemic effects
Hexyl salicylate	6259-76-3	DNEL	7.29 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Hexyl salicylate	6259-76-3	DNEL	1.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl salicylate	6259-76-3	DNEL	6.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexyl salicylate	6259-76-3	DNEL	885 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Hexyl salicylate	6259-76-3	DNEL	885 µg/cm ²	human, dermal	worker (industry)	acute - local effects
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	DNEL	14 µg/cm ²	human, dermal	worker (industry)	acute - local effects
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	DNEL	1.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	DNEL	2.1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	DNEL	116 µg/cm ²	human, dermal	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.013 mg/l	aquatic organisms	freshwater	short-term (single instance)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.117 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



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Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.012 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.016 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	2.22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 mg/kg	terrestrial organisms	soil	short-term (single instance)
Florosol	63500-71-0	PNEC	0.94 mg/l	aquatic organisms	water	intermittent release
Florosol	63500-71-0	PNEC	0.094 mg/l	aquatic organisms	freshwater	short-term (single instance)
Florosol	63500-71-0	PNEC	0.009 mg/l	aquatic organisms	marine water	short-term (single instance)
Florosol	63500-71-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Florosol	63500-71-0	PNEC	0.412 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Florosol	63500-71-0	PNEC	0.041 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Florosol	63500-71-0	PNEC	0.09 mg/kg	terrestrial organisms	soil	short-term (single instance)



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Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Phenethyl alcohol	60-12-8	PNEC	2.15 mg/l	aquatic organisms	water	intermittent release
Phenethyl alcohol	60-12-8	PNEC	0.215 mg/l	aquatic organisms	freshwater	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	0.021 mg/l	aquatic organisms	marine water	short-term (single instance)
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	1.454 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	0.145 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	0.164 mg/kg	terrestrial organisms	soil	short-term (single instance)
Ionone, methyl-	1335-46-2	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
Ionone, methyl-	1335-46-2	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Ionone, methyl-	1335-46-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ionone, methyl-	1335-46-2	PNEC	0.168 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ionone, methyl-	1335-46-2	PNEC	0.017 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Ionone, methyl-	1335-46-2	PNEC	0.033 mg/kg	terrestrial organisms	soil	short-term (single instance)
Mayol	5502-75-0	PNEC	3.5 µg/l	aquatic organisms	freshwater	short-term (single instance)
Mayol	5502-75-0	PNEC	3.5 µg/l	aquatic organisms	marine water	short-term (single instance)
Mayol	5502-75-0	PNEC	1.9 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Mayol	5502-75-0	PNEC	2.118 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Mayol	5502-75-0	PNEC	211.8 µg/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
Mayol	5502-75-0	PNEC	403 µg/kg	terrestrial organisms	soil	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.006 mg/l	aquatic organisms	freshwater	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Floralozone	67634-15-5	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.635 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.064 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.124 mg/kg	terrestrial organisms	soil	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	14 µg/l	aquatic organisms	freshwater	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.4 µg/l	aquatic organisms	marine water	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	3.85 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.385 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.763 mg/kg	terrestrial organisms	soil	short-term (single instance)
Cyclamal	103-95-7	PNEC	33.3 mg/kg	aquatic organisms	water	short-term (single instance)
Cyclamal	103-95-7	PNEC	10.92 µg/l	aquatic organisms	water	intermittent release
Cyclamal	103-95-7	PNEC	8.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.88 µg/l	aquatic organisms	marine water	short-term (single instance)
Cyclamal	103-95-7	PNEC	1 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
Cyclamal	103-95-7	PNEC	1.02 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.102 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.199 mg/kg	terrestrial organisms	soil	short-term (single instance)
4-methylanisole	104-93-8	PNEC	27 µg/l	aquatic organisms	freshwater	short-term (single instance)
4-methylanisole	104-93-8	PNEC	2.7 µg/l	aquatic organisms	marine water	short-term (single instance)
4-methylanisole	104-93-8	PNEC	0.3 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4-methylanisole	104-93-8	PNEC	1.17 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
4-methylanisole	104-93-8	PNEC	0.117 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
4-methylanisole	104-93-8	PNEC	0.219 mg/kg	terrestrial organisms	soil	short-term (single instance)
Melonal	106-72-9	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
Melonal	106-72-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Melonal	106-72-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Melonal	106-72-9	PNEC	0.045 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Melonal	106-72-9	PNEC	0.004 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Melonal	106-72-9	PNEC	0.021 mg/kg	terrestrial organisms	soil	short-term (single instance)
Nerol	106-25-2	PNEC	0.22 mg/l	aquatic organisms	water	intermittent release
Nerol	106-25-2	PNEC	7.45 µg/l	aquatic organisms	freshwater	short-term (single instance)
Nerol	106-25-2	PNEC	0.745 µg/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
Nerol	106-25-2	PNEC	12.9 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Nerol	106-25-2	PNEC	133 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Nerol	106-25-2	PNEC	13.3 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Nerol	106-25-2	PNEC	22.3 µg/kg	terrestrial organisms	soil	short-term (single instance)
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	PNEC	4.7 µg/l	aquatic organisms	freshwater	short-term (single instance)
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	PNEC	0.47 µg/l	aquatic organisms	marine water	short-term (single instance)
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	PNEC	0.047 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	PNEC	0.005 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	PNEC	0.007 mg/kg	terrestrial organisms	soil	short-term (single instance)
Citronellol	106-22-9	PNEC	0.024 mg/l	aquatic organisms	water	intermittent release
Citronellol	106-22-9	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citronellol	106-22-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Citronellol	106-22-9	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citronellol	106-22-9	PNEC	0.026 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.003 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.004 mg/kg	terrestrial organisms	soil	short-term (single instance)
Coumarin	91-64-5	PNEC	0.056 mg/l	aquatic organisms	water	intermittent release



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Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Coumarin	91-64-5	PNEC	19 µg/l	aquatic organisms	freshwater	short-term (single instance)
Coumarin	91-64-5	PNEC	1.9 µg/l	aquatic organisms	marine water	short-term (single instance)
Coumarin	91-64-5	PNEC	6.4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Coumarin	91-64-5	PNEC	0.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.018 mg/kg	terrestrial organisms	soil	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.00357 mg/l	aquatic organisms	water	intermittent release
Hexyl salicylate	6259-76-3	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.272 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.027 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.054 mg/kg	terrestrial organisms	soil	short-term (single instance)
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	PNEC	7.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	PNEC	0.74 µg/l	aquatic organisms	marine water	short-term (single instance)
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	PNEC	2.41 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	PNEC	958 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	PNEC	95.8 µg/kg	aquatic organisms	marine sediment	short-term (single instance)



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Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	PNEC	187 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.

- Type of material

PVA: polyvinyl alcohol, Nitrile

- Material thickness

>0.5 mm

- Breakthrough times of the glove material

>120 minutes (permeation: level 4)

- 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 yellow
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	>40 °C
Flash point	76 °C
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	10 kPa at 143.6 °C
Density	0.934 - 0.944 g/cm ³
Vapor density	this information is not available
Relative density	0.934 - 0.944 (air = 1)
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
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Auto-ignition temperature	260 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

9.2 Other information

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.



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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

Shall not be classified as acutely toxic.

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

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Phenethyl alcohol	60-12-8	oral	1,603 mg/kg
Phenethyl alcohol	60-12-8	inhalation: vapor	11 mg/l/4h
Phenethyl alcohol	60-12-8	inhalation: dust/mist	>4.63 mg/l/4h
Distillates (petroleum), hydrotreated light	64742-47-8	inhalation: vapor	>5.28 mg/l/4h
4-methylanisole	104-93-8	oral	1,920 mg/kg
4-methylanisole	104-93-8	inhalation: vapor	>6.1 mg/l/4h
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	oral	500 mg/kg
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	dermal	1,100 mg/kg
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	inhalation: vapor	11 mg/l/4h
Coumarin	91-64-5	oral	293 mg/kg
Coumarin	91-64-5	dermal	293 mg/kg
Isoeugenol	97-54-1	oral	1,560 mg/kg
[1 α (E),2 β]-Damascone	57378-68-4 71048-82-3	oral	1,400 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.



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Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
Coumarin	91-64-5	3	
(R)-p-mentha-1,8-diene	5989-27-5	3	

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Suspected of damaging the unborn child.

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.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects. Harmful 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
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	LC50	13 mg/l	fish	96 h
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	EC50	>100 mg/l	aquatic invertebrates	24 h



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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	ErC50	>85 mg/l	algae	72 h
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	NOEC	10 mg/l	fish	96 h
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	LOEC	18 mg/l	fish	96 h
Linalool	78-70-6	LC50	27.8 mg/l	fish	96 h
Linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156.7 mg/l	algae	96 h
Linalool	78-70-6	NOEC	<3.5 mg/l	fish	96 h
Florosol	63500-71-0	EC50	320 mg/l	aquatic invertebrates	48 h
Florosol	63500-71-0	ErC50	>100 mg/l	algae	72 h
Florosol	63500-71-0	NOEC	≥320 mg/l	aquatic invertebrates	48 h
Phenethyl alcohol	60-12-8	LC50	<464 mg/l	fish	96 h
Phenethyl alcohol	60-12-8	EC50	287.2 mg/l	aquatic invertebrates	48 h
Phenethyl alcohol	60-12-8	ErC50	1.3 g/l	algae	72 h
Phenethyl alcohol	60-12-8	NOEC	100 mg/l	fish	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	LC50	>1,000 mg/l	rainbow trout (<i>Oncorhynchus mykiss</i>)	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	LC50	>1,000 mg/l	goldfish (<i>Carassius auratus</i>)	72 h
Distillates (petroleum), hydrotreated light	64742-47-8	EC50	>1,000 mg/l	water flea (<i>Daphnia</i>)	48 h
Distillates (petroleum), hydrotreated light	64742-47-8	EC50	>1,000 mg/l	algae	72 h
Distillates (petroleum), hydrotreated light	64742-47-8	LL50	5 mg/l	fish	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	1.4 mg/l	aquatic invertebrates	48 h



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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydrotreated light	64742-47-8	LOEL	1 mg/l	algae	72 h
Ionone, methyl-	1335-46-2	LC50	>1.57 mg/l	fish	96 h
Ionone, methyl-	1335-46-2	LL50	>100 mg/l	fish	96 h
Ionone, methyl-	1335-46-2	EC50	3.7 mg/l	aquatic invertebrates	48 h
Ionone, methyl-	1335-46-2	ErC50	>9.42 mg/l	algae	72 h
Ionone, methyl-	1335-46-2	NOEC	≥9.42 mg/l	algae	72 h
Mayol	5502-75-0	LC50	7.5 mg/l	fish	24 h
Mayol	5502-75-0	EC50	13 mg/l	aquatic invertebrates	48 h
Mayol	5502-75-0	ErC50	10 mg/l	algae	72 h
Mayol	5502-75-0	NOEC	3.2 mg/l	fish	96 h
Mayol	5502-75-0	LOEC	5.6 mg/l	fish	96 h
Floralozone	67634-15-5	LC50	>0.7 mg/l	fish	96 h
Floralozone	67634-15-5	EC50	0.87 mg/l	aquatic invertebrates	48 h
Floralozone	67634-15-5	ErC50	>1.2 mg/l	algae	72 h
Floralozone	67634-15-5	NOEC	1.2 mg/l	algae	72 h
(R)-p-mentha-1,8-diene	5989-27-5	LC50	720 µg/l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	EC50	688 µg/l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	ErC50	0.32 mg/l	algae	72 h
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.09 mg/l	algae	48 h
Cyclamal	103-95-7	LC50	1.42 mg/l	fish	96 h
Cyclamal	103-95-7	EC50	1.4 mg/l	aquatic invertebrates	48 h
Cyclamal	103-95-7	ErC50	4.3 mg/l	algae	72 h
Cyclamal	103-95-7	LOEC	2.5 mg/l	algae	72 h
Cyclamal	103-95-7	NOEC	0.72 mg/l	algae	72 h
Caryophyllene	87-44-5	EC50	>0.17 mg/l	aquatic invertebrates	48 h



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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Caryophyllene	87-44-5	ErC50	>0.033 mg/l	algae	72 h
Caryophyllene	87-44-5	NOEC	≥0.033 mg/l	algae	72 h
4-methylanisole	104-93-8	LC50	68.2 mg/l	fish	96 h
4-methylanisole	104-93-8	EC50	27 mg/l	aquatic invertebrates	48 h
4-methylanisole	104-93-8	ErC50	>500 mg/l	algae	72 h
4-methylanisole	104-93-8	NOEC	21.5 mg/l	fish	96 h
Melonal	106-72-9	LC50	2.288 mg/l	fish	96 h
Melonal	106-72-9	EC50	2.4 mg/l	aquatic invertebrates	48 h
Melonal	106-72-9	NOEC	0.39 mg/l	aquatic invertebrates	48 h
Melonal	106-72-9	LOEC	0.93 mg/l	aquatic invertebrates	48 h
Nerol	106-25-2	LC50	20.3 mg/l	fish	96 h
Nerol	106-25-2	EC50	32.4 mg/l	aquatic invertebrates	48 h
Nerol	106-25-2	ErC50	9.54 mg/l	algae	72 h
Nerol	106-25-2	NOEC	10 mg/l	fish	96 h
1-Penten-3-One, 1-(2,6,6-Trimethyl-1-Cyclohexen-1-Yl)-, (1E)-	63429-28-7	EC50	1.3 mg/l	aquatic invertebrates	48 h
1-Penten-3-One, 1-(2,6,6-Trimethyl-1-Cyclohexen-1-Yl)-, (1E)-	63429-28-7	ErC50	1.1 mg/l	algae	72 h
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	LC50	3.6 mg/l	fish	96 h
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	EC50	3 mg/l	aquatic invertebrates	48 h
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	ErC50	5.6 mg/l	algae	72 h
Citronellol	106-22-9	LC50	14.66 mg/l	fish	96 h
Citronellol	106-22-9	EC50	17.48 mg/l	aquatic invertebrates	48 h
Citronellol	106-22-9	NOEC	4.6 mg/l	fish	96 h



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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Coumarin	91-64-5	LC50	2.94 mg/l	fish	96 h
Coumarin	91-64-5	EC50	8.012 mg/l	aquatic invertebrates	48 h
Coumarin	91-64-5	NOEC	0.431 mg/l	algae	72 h
Hexyl salicylate	6259-76-3	EC50	0.543 mg/l	aquatic invertebrates	24 h
Hexyl salicylate	6259-76-3	ErC50	0.61 mg/l	algae	72 h
Hexyl salicylate	6259-76-3	NOEC	0.14 mg/l	aquatic invertebrates	24 h
Hexyl salicylate	6259-76-3	LOEC	0.31 mg/l	aquatic invertebrates	24 h
[1 α (E),2 β]-Damascone	57378-68-4 71048-82-3	LC50	0.97 mg/l	fish	96 h
[1 α (E),2 β]-Damascone	57378-68-4 71048-82-3	ErC50	4.54 mg/l	algae	72 h
[1 α (E),2 β]-Damascone	57378-68-4 71048-82-3	EC50	2.47 mg/l	algae	72 h
[1 α (E),2 β]-Damascone	57378-68-4 71048-82-3	NOEC	0.883 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	EC50	>100 mg/l	microorganisms	3 h
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	NOEC	100 mg/l	microorganisms	3 h
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
Florosol	63500-71-0	EC50	>1,000 mg/l	microorganisms	3 h
Florosol	63500-71-0	NOEC	1,000 mg/l	microorganisms	3 h
Phenethyl alcohol	60-12-8	EC50	>100 mg/l	microorganisms	3 h
Phenethyl alcohol	60-12-8	NOEC	100 mg/l	microorganisms	3 h



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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	0.89 mg/l	aquatic invertebrates	21 d
Distillates (petroleum), hydrotreated light	64742-47-8	LOEL	1.2 mg/l	aquatic invertebrates	21 d
Ionone, methyl-	1335-46-2	EC50	>1,000 mg/l	microorganisms	1 h
Mayol	5502-75-0	LC50	7.5 mg/l	fish	3 h
Mayol	5502-75-0	EC50	190 mg/l	microorganisms	3 h
Mayol	5502-75-0	NOEC	0.426 mg/l	fish	33 d
Floralozone	67634-15-5	EC50	1.7 mg/l	aquatic invertebrates	21 d
Floralozone	67634-15-5	NOEC	0.7 mg/l	aquatic invertebrates	21 d
(R)-p-mentha-1,8-diene	5989-27-5	EC50	<0.67 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LC50	0.41 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.37 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LOEC	0.67 mg/l	fish	8 d
Cyclamal	103-95-7	EC50	1.7 mg/l	aquatic invertebrates	21 d
Cyclamal	103-95-7	NOEC	0.44 mg/l	aquatic invertebrates	21 d
4-methylanisole	104-93-8	EC50	5,272 mg/l	microorganisms	30 min
Melonal	106-72-9	NOEC	100 mg/l	microorganisms	39 d
Nerol	106-25-2	EC50	241 mg/l	microorganisms	3 h
Citronellol	106-22-9	EC50	>10,000 mg/l	microorganisms	30 min
Coumarin	91-64-5	NOEC	0.191 mg/l	fish	30 d
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	EC50	0.318 mg/l	fish	32 d
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	NOEC	0.118 mg/l	fish	32 d
[1α(E),2β]-Damascone	57378-68-4 71048-82-3	LOEC	0.316 mg/l	fish	32 d



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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

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

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

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	not subject to transport regulations
14.2 UN proper shipping name	not relevant
14.3 Transport hazard class(es)	none
14.4 Packing group	not assigned
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations



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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

DOT

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

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

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

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

National regulations (United States)

Toxic Substance Control Act (TSCA) not all ingredients are listed (ACTIVE)

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)

none of the ingredients are listed

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

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

none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List



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

Name of substance	CAS No	Functionality	Authoritative Lists
Benzyl acetate	140-11-4	fragrance	
Linalool	78-70-6	fragrance	EU Fragrance Allergens
Florosol	63500-71-0	fragrance	
Phenethyl alcohol	60-12-8	fragrance	
Distillates (petroleum), hydrotreated light	64742-47-8	solvents	
3,4,5,6,6-pentamethylhept-3-en-2-one	86115-11-9	fragrance	
Methyl Ionone	127-51-5	fragrance	EU Fragrance Allergens
Floralozone	67634-15-5	fragrance	
cis-4-(isopropyl)cyclohexanemethanol	13828-37-0	fragrance	
(R)-p-mentha-1,8-diene	5989-27-5	fragrance	EU Fragrance Allergens
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3		EU Fragrance Allergens
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	fragrance	
Undecavertol	81782-77-6	fragrance	
Nerol	106-25-2	fragrance	
4-methylanisole	104-93-8	fragrance	
Melonal	106-72-9	fragrance	
Caryophyllene	87-44-5	fragrance	
Citronellol	106-22-9	fragrance	EU Fragrance Allergens
2'-acetoneaphthone	93-08-3	fragrance	
benzyl benzoate	120-51-4	fragrance	EU Fragrance Allergens
Coumarin	91-64-5	fragrance	EU Fragrance Allergens
benzyl alcohol	100-51-6	fragrance	EU Fragrance Allergens
Isoeugenol	97-54-1	fragrance	EU Fragrance Allergens
Hexyl salicylate	6259-76-3	fragrance	
[1 α (E),2 β]-Damascone	57378-68-4 71048-82-3	fragrance	
alpha-cedrene	469-61-4	fragrance	
Geraniol	106-24-1	fragrance	EU Fragrance Allergens



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Name of substance	CAS No	Functionality	Authoritative Lists
Eugenol	97-53-0	fragrance	EU Fragrance Allergens
benzaldehyde	100-52-7	fragrance	
Methyl salicylate	119-36-8	fragrance	
Phenylacetaldehyde	122-78-1	fragrance	

- Toxic or Hazardous Substance List (MA-TURA)

none of the ingredients are listed

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
(R)-p-mentha-1,8-diene	138-86-3		F2

Legend

F2 Flammable - Second Degree

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

none of the ingredients are listed

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	2	temporary or minor injury may occur
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).



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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	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
AU	AIIC	not all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	not all ingredients are listed
US	TSCA	not all ingredients are listed
VN	NCI	not all ingredients are listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory



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Legend

NCI	National Chemical Inventory
NDSL	Non-domestic Substances List (NDSL)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

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

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table)	yes
2.1	The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.	The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources.	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2	- Hazardous ingredients for labelling: Linalool, Distillates (petroleum), hydrotreated light, 4-methylanisole, dipentene, 3,4,5,6,6-pentamethylhept-3-en-2-one, Cyclamal, Methyl Ionone, Coumarin, Isoeugenol, Nerol, Hexyl salicylate, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	- Hazardous ingredients for labelling: (E)-2-methoxy-4-(prop-1-enyl)phenol, 4-methylanisole, Linalool, (R)-p-mentha-1,8-diene, Mayol, Cyclamal, Floralozone, Caryophyllene, Citronellol, Coumarin, Melonal, Nerol, Hexyl salicylate, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, [1 α (E),2 β]-Damascone, Isoeugenol, 1-Penten-3-One, 1-(2,6,6-Trimethyl-1-Cyclohexen-1-Yl)-, (1e)-, Dimethyltetrahydro Benzaldehyde	yes
2.3	Other hazards: This material is combustible, but will not ignite readily.	Other hazards	yes
2.3		Hazards not otherwise classified: change in the listing (table)	yes
2.3	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of \geq 0.1%.	yes



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2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.	yes
3.2		Description of the mixture: change in the listing (table)	yes
5.2	Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO ₂)	Hazardous combustion products: Nitrogen oxides (NO _x), Carbon monoxide (CO), Carbon dioxide (CO ₂)	yes
7.2	- Packaging compatibilities: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.		yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
8.2		Type of material: PVA: polyvinyl alcohol, Nitrile	yes
8.2		Material thickness: >0.5 mm	yes
8.2		Breakthrough times of the glove material: >120 minutes (permeation: level 4)	yes
9.1	Color: various	Color: Colorless to pale yellow	yes
9.1		Particle: not relevant (liquid)	yes
9.1	Initial boiling point and boiling range: ≥ 146 °C at 101.3 kPa	Initial boiling point and boiling range: >40 °C	yes
9.1	Explosive limits: not determined		yes
9.1		Relative density: 0.934 - 0.944 (air = 1)	yes
11.1	Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful if swallowed.	Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful if swallowed, in contact with skin or if inhaled.	yes



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11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1		IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: change in the listing (table)	yes
11.1	Specific target organ toxicity - repeated exposure: May cause damage to organs (nervous system) through prolonged or repeated exposure.	Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).	yes
11.1		Specific target organ toxicity - repeated exposure: change in the listing (table)	yes
12.1	Toxicity: Toxic to aquatic life with long lasting effects.	Toxicity: Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.	yes
12.6	Endocrine disrupting potential: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.	yes
12.7	Other adverse effects	Other adverse effects: Data are not available.	yes
13.1	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.	Waste treatment of containers/packages: Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	yes
14.1	UN number: 3082	UN number: not subject to transport regulations	yes
14.2	UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.	UN proper shipping name: not relevant	yes
14.2	Technical name (hazardous ingredients): Methyl Ionone, Distillates (petroleum), hydro-treated light		yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.3	Transport hazard class(es)	Transport hazard class(es): none	yes
14.3	Class: 9 (environmentally hazardous)		yes
14.4	Packing group: III (substance presenting low danger)	Packing group: not assigned	yes
14.5	Environmental hazards: hazardous to the aquatic environment	Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations	yes
14.5	Environmentally hazardous substance (aquatic environment): Methyl Ionone, Distillates (petroleum), hydro-treated light		yes
14.7	Information for each of the UN Model Regulations: Not regulated when carried in single or combination packaging containing a net quantity of 5L or less or 5 kg or less per the following: DOT: 171.4(2) ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197, DOT	Information for each of the UN Model Regulations: DOT	yes
14.7	Transport of dangerous goods by road or rail (49 CFR US DOT)	Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information: Not subject to transport regulations.	yes
14.7	Index number: 3082		yes
14.7	Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.		yes
14.7	Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Methyl Ionone, Distillates (petroleum), hydrotreated light), 9, III		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	Danger label(s): 9, fish and tree		yes
14.7		Danger label(s): change in the listing (table)	yes



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14.7	Environmental hazards: yes (hazardous to the aquatic environment)		yes
14.7	Special provisions (SP): 8, 146, 173, 335, IB3, T4, TP1, TP29		yes
14.7	ERG No: 171		yes
14.7	UN number: 3082		yes
14.7	Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		yes
14.7	Particulars in the shipper's declaration: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: Methyl Ionone, Distillates (petroleum), hydrotreated light), 9, III		yes
14.7	Class: 9		yes
14.7	Marine pollutant: yes (hazardous to the aquatic environment)		yes
14.7	Packing group: III		yes
14.7	Danger label(s): 9, fish and tree		yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): 274, 335, 969		yes
14.7	Excepted quantities (EQ): E1		yes
14.7	Limited quantities (LQ): 5 L		yes
14.7	EmS: F-A, S-F		yes
14.7	Stowage category: A		yes
14.7	UN number: 3082		yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.7	Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.		yes
14.7	Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Methyl Ionone, Distillates (petroleum), hydrotreated light), 9, III		yes
14.7	Class: 9		yes
14.7	Environmental hazards: yes (hazardous to the aquatic environment)		yes
14.7	Packing group: III		yes
14.7	Danger label(s): 9, fish and tree		yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): A97, A158, A197		yes
14.7	Excepted quantities (EQ): E1		yes
14.7	Limited quantities (LQ): 30 kg		yes
15.1	Hazardous Substances List (MN-ERTK)		yes
15.1		Hazardous Substances List (MN-ERTK): change in the listing (table)	yes
15.1	Hazardous Substance List (Chapter 323) (PA-RTK): none of the ingredients are listed		yes
15.1	Hazardous Substance List (RI-RTK): none of the ingredients are listed		yes
14.7	International Maritime Dangerous Goods Code (IMDG)	International Maritime Dangerous Goods Code (IMDG) - Additional information: Not subject to IMDG.	yes
14.7	International Civil Aviation Organization (ICAO-IATA/DGR)	International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information: Not subject to ICAO-IATA.	yes
15.1		Toxic Substance Control Act (TSCA): not all ingredients are listed (ACTIVE)	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (NJ-RTK): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2023	From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. 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)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
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
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
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
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye



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Abbr.	Descriptions of used abbreviations
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	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
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
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
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 RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average



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Abbr.	Descriptions of used abbreviations
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).

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

Code	Text
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.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Disclaimer

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