



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Your Car Mini Diffuser Fresh Strawberry/Cool Lemonade

Version number: 2.0
Replaces version of: 2020-12-07 (1)

Revision: 2020-12-15

SECTION 1: Identification

1.1 Product identifier

Trade name

Refresh Your Car Mini Diffuser Fresh Strawberry/Cool Lemonade

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

Relevant identified uses

Consumer use: 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)
Website: <http://data.energizer.com>

Energizer Trading Ltd.
Sword House, Totteridge Road, High Wycombe, HP13 6DG, UK

Telephone: +44(0)8000353376
e-mail: ConsumerServiceEU@energizer.com

1.4 Emergency telephone number

Emergency information service

1-314-985-1511 Int'l: 1-800-526-4727
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

For full text of abbreviations: see SECTION 16.

2.2 Label elements

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

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- Signal word warning

- Pictograms

GHS07



- Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing mist/vapors.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves.
P302+P352 If on skin: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see 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 it before reuse.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/container in accordance with national regulations.

2.2.1.7- Hazardous ingredients for labelling

dipentene, Geranyl acetate, Linalyl acetate, Linalool, Benzyl salicylate, Aldehyde C-16, Dimethylcyclohex-3-ene-1-carbaldehyde, Dorisyl, citral, Aldehyde C12 MNA

2.3 Other hazards

Hazards not otherwise classified

May be harmful if swallowed (GHS category 5: acutely toxic - oral).
Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.



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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures












Description of the mixture

Name of substance	CAS No	Wt%	Classification acc. to GHS	Pictograms
3,5,5-trimethylhexyl acetate	58430-94-7	25 – < 50	Skin Irrit. 2 / H315 Flam. Liq. 4 / H227	
Hexyl Acetate	142-92-7	5 – < 10	Flam. Liq. 3 / H226	
Dihydromyrcenol	18479-58-8	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Flam. Liq. 4 / H227	
Linalyl acetate	115-95-7	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
dipentene	138-86-3 5989-27-5 5989-54-8	1 – < 5	Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Flam. Liq. 3 / H226	
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Allyl Caproate	123-68-2	1 – < 5	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Flam. Liq. 4 / H227	
Linalool	78-70-6	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Benzyl salicylate	118-58-1	1 – < 5	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
3-methylbutyl butyrate	106-27-4	1 – < 5	Flam. Liq. 3 / H226	
DMBC Acetate	151-05-3	1 – < 5	Skin Irrit. 2 / H315	

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Name of substance	CAS No	Wt%	Classification acc. to GHS	Pictograms
Aldehyde C-16	77-83-8	1 – < 5	Skin Sens. 1B / H317	
acetophenone	98-86-2	1 – < 5	Acute Tox. 4 / H302 Eye Irrit. 2 / H319	
2,6-dimethylheptan-2-ol	13254-34-7	1 – < 5	Flam. Liq. 4 / H227	
1-Butanol, 2-methyl-, 1-acetate	624-41-9	1 – < 5	Flam. Liq. 3 / H226	
Applinal	6413-10-1	1 – < 5	Flam. Liq. 4 / H227	
ethyl butyrate	105-54-4	1 – < 5	Eye Irrit. 2 / H319 Flam. Liq. 3 / H226	 
3-methyl-2-butenyl acetate	1191-16-8	1 – < 5	Flam. Liq. 3 / H226	
Dorisyl	32210-23-4	1 – < 5	Skin Sens. 1B / H317	
citral	5392-40-5	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Asp. Tox. 1 / H304	 
Geranyl acetate	105-87-3	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
Aldehyde C12 MNA	110-41-8	< 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	

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.



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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

Hazardous combustion products

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.



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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. Use only in well-ventilated areas.

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

- 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



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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	2,6-di-tert-butyl-p-cresol	128-37-0	PEL (CA)		10						Cal/ OSHA PEL
US	2,6-di-tert-butyl-p-cresol	128-37-0	REL		10 (10 h)						NIOSH REL
US	butylated hydroxytoluene	128-37-0	TLV®		2					iv	AC-GIH® 2019
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	citral	5392-40-5	TLV®	5						iv	AC-GIH® 2019
US	2-methylbutyl acetate	624-41-9	PEL (CA)	50	266	100	532				Cal/ OSHA PEL
US	2-methylbutyl acetate	624-41-9	TLV®	50		100					AC-GIH® 2019
US	acetophenone	98-86-2	PEL (CA)	10	49						Cal/ OSHA PEL
US	acetophenone	98-86-2	TLV®	10							AC-GIH® 2019

Notation

Ceiling-C

iv

STEL

TWA

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

inhalable fraction and vapor

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)

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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Relevant DNELs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
3,5,5-trimethylhexyl acetate	58430-94-7	DNEL	5.64 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
3,5,5-trimethylhexyl acetate	58430-94-7	DNEL	0.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexyl Acetate	142-92-7	DNEL	48 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl Acetate	142-92-7	DNEL	14 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Applinal	6413-10-1	DNEL	23.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Applinal	6413-10-1	DNEL	13.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	73.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	20.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.75 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	236.2 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Linalyl acetate	115-95-7	DNEL	236.2 µg/cm ²	human, dermal	worker (industry)	acute - local effects
3-methyl-2-butenyl acetate	1191-16-8	DNEL	5.77 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
3-methyl-2-butenyl acetate	1191-16-8	DNEL	6.54 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
acetophenone	98-86-2	DNEL	22 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
acetophenone	98-86-2	DNEL	6.3 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	16.5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects



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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
1-Butanol, 2-methyl-, 1-acetate	624-41-9	DNEL	260 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
1-Butanol, 2-methyl-, 1-acetate	624-41-9	DNEL	260 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
2,6-dimethylheptan-2-ol	13254-34-7	DNEL	4.02 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2,6-dimethylheptan-2-ol	13254-34-7	DNEL	16.08 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
2,6-dimethylheptan-2-ol	13254-34-7	DNEL	10.05 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2,6-dimethylheptan-2-ol	13254-34-7	DNEL	40.2 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
2,6-dimethylheptan-2-ol	13254-34-7	DNEL	1.14 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,6-dimethylheptan-2-ol	13254-34-7	DNEL	4.56 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	DNEL	7.3 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	DNEL	2.1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	DNEL	1,163 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Allyl Caproate	123-68-2	DNEL	15 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl Caproate	123-68-2	DNEL	4.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ethyl butyrate	105-54-4	DNEL	49.3 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
ethyl butyrate	105-54-4	DNEL	2.33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DMBC Acetate	151-05-3	DNEL	4.4 mg/m ³	human, inhalatory	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
DMBC Acetate	151-05-3	DNEL	8.33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Benzyl salicylate	118-58-1	DNEL	7.8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl salicylate	118-58-1	DNEL	2.21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C-16	77-83-8	DNEL	2.45 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Aldehyde C-16	77-83-8	DNEL	0.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
citral	5392-40-5	DNEL	9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
citral	5392-40-5	DNEL	1.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
citral	5392-40-5	DNEL	140 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Geranyl acetate	105-87-3	DNEL	62.59 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	35.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C12 MNA	110-41-8	DNEL	36.89 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Aldehyde C12 MNA	110-41-8	DNEL	352.6 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Aldehyde C12 MNA	110-41-8	DNEL	92.21 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Aldehyde C12 MNA	110-41-8	DNEL	881.6 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Aldehyde C12 MNA	110-41-8	DNEL	10.46 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C12 MNA	110-41-8	DNEL	100 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects



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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	7.7 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	0.77 µg/l	aquatic organ-isms	marine water	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	2.895 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	0.29 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	2.66 mg/kg	aquatic organ-isms	water	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	0.573 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	77 µg/l	aquatic organ-isms	water	intermittent re-lease
Hexyl Acetate	142-92-7	PNEC	0.044 mg/l	aquatic organ-isms	water	intermittent re-lease
Hexyl Acetate	142-92-7	PNEC	0.004 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	0 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	1 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	0.144 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	0.014 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	0.026 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Applinal	6413-10-1	PNEC	33.3 mg/kg	aquatic organ-isms	water	short-term (single instance)
Applinal	6413-10-1	PNEC	1 mg/l	aquatic organ-isms	water	intermittent re-lease
Applinal	6413-10-1	PNEC	0.1 mg/l	aquatic organ-isms	freshwater	short-term (single instance)



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Applinal	6413-10-1	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)
Applinal	6413-10-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Applinal	6413-10-1	PNEC	0.61 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Applinal	6413-10-1	PNEC	0.061 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Applinal	6413-10-1	PNEC	0.064 mg/kg	terrestrial organisms	soil	short-term (single instance)
3-methylbutyl butyrate	106-27-4	PNEC	3.19 µg/l	aquatic organisms	freshwater	short-term (single instance)
3-methylbutyl butyrate	106-27-4	PNEC	0.319 µg/l	aquatic organisms	marine water	short-term (single instance)
3-methylbutyl butyrate	106-27-4	PNEC	1.51 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
3-methylbutyl butyrate	106-27-4	PNEC	100 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3-methylbutyl butyrate	106-27-4	PNEC	10 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
3-methylbutyl butyrate	106-27-4	PNEC	18.1 µg/kg	terrestrial organisms	soil	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	111 mg/kg	aquatic organisms	water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.278 mg/l	aquatic organisms	water	intermittent release
Dihydromyrcenol	18479-58-8	PNEC	27.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	2.78 µg/l	aquatic organisms	marine water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.594 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.059 mg/kg	aquatic organisms	marine sediment	short-term (single instance)



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Replaces version of: 2020-12-07 (1)

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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
Dihydromyrcenol	18479-58-8	PNEC	0.103 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	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.609 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)
Linalyl acetate	115-95-7	PNEC	0.115 mg/kg	terrestrial organisms	soil	short-term (single instance)
3-methyl-2-butenyl acetate	1191-16-8	PNEC	0.235 mg/l	aquatic organisms	water	intermittent release
3-methyl-2-butenyl acetate	1191-16-8	PNEC	0.024 mg/l	aquatic organisms	freshwater	short-term (single instance)
3-methyl-2-butenyl acetate	1191-16-8	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
3-methyl-2-butenyl acetate	1191-16-8	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
3-methyl-2-butenyl acetate	1191-16-8	PNEC	0.151 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3-methyl-2-butenyl acetate	1191-16-8	PNEC	0.085 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3-methyl-2-butenyl acetate	1191-16-8	PNEC	0.007 mg/kg	terrestrial organisms	soil	short-term (single instance)
acetophenone	98-86-2	PNEC	0.086 mg/l	aquatic organisms	freshwater	short-term (single instance)
acetophenone	98-86-2	PNEC	0.009 mg/l	aquatic organisms	marine water	short-term (single instance)
acetophenone	98-86-2	PNEC	34.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)



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acetophenone	98-86-2	PNEC	1.13 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
acetophenone	98-86-2	PNEC	0.113 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
acetophenone	98-86-2	PNEC	0.175 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)
1-Butanol, 2-methyl-, 1-acetate	624-41-9	PNEC	0.041 mg/l	aquatic organisms	freshwater	short-term (single instance)
1-Butanol, 2-methyl-, 1-acetate	624-41-9	PNEC	0.004 mg/l	aquatic organisms	marine water	short-term (single instance)
1-Butanol, 2-methyl-, 1-acetate	624-41-9	PNEC	72 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1-Butanol, 2-methyl-, 1-acetate	624-41-9	PNEC	0.286 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1-Butanol, 2-methyl-, 1-acetate	624-41-9	PNEC	0.029 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1-Butanol, 2-methyl-, 1-acetate	624-41-9	PNEC	0.033 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dorisyl	32210-23-4	PNEC	5.3 µg/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
Dorisyl	32210-23-4	PNEC	0.53 µg/l	aquatic organisms	marine water	short-term (single instance)
Dorisyl	32210-23-4	PNEC	12.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dorisyl	32210-23-4	PNEC	2.01 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.21 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dorisyl	32210-23-4	PNEC	66.67 mg/kg	aquatic organisms	water	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.42 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dorisyl	32210-23-4	PNEC	53 µg/l	aquatic organisms	water	intermittent release
2,6-dimethylheptan-2-ol	13254-34-7	PNEC	0.024 mg/l	aquatic organisms	freshwater	short-term (single instance)
2,6-dimethylheptan-2-ol	13254-34-7	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
2,6-dimethylheptan-2-ol	13254-34-7	PNEC	8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,6-dimethylheptan-2-ol	13254-34-7	PNEC	0.89 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2,6-dimethylheptan-2-ol	13254-34-7	PNEC	0.089 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2,6-dimethylheptan-2-ol	13254-34-7	PNEC	0.177 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.008 mg/l	aquatic organisms	freshwater	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	13.8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.152 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)



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Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.023 mg/kg	terrestrial organisms	soil	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	47.56 mg/kg	aquatic organisms	water	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	1.17 µg/l	aquatic organisms	water	intermittent release
Allyl Caproate	123-68-2	PNEC	0.117 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.012 µg/l	aquatic organisms	marine water	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	4.46 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.446 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.825 µg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl butyrate	105-54-4	PNEC	29.7 µg/l	aquatic organisms	freshwater	short-term (single instance)
ethyl butyrate	105-54-4	PNEC	2.97 µg/l	aquatic organisms	marine water	short-term (single instance)
ethyl butyrate	105-54-4	PNEC	23.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethyl butyrate	105-54-4	PNEC	0.173 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethyl butyrate	105-54-4	PNEC	17.3 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethyl butyrate	105-54-4	PNEC	17.1 µg/kg	terrestrial organisms	soil	short-term (single instance)
DMBC Acetate	151-05-3	PNEC	4.766 µg/l	aquatic organisms	freshwater	short-term (single instance)
DMBC Acetate	151-05-3	PNEC	31.25 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
DMBC Acetate	151-05-3	PNEC	0.189 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



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DMBC Acetate	151-05-3	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.0103 mg/l	aquatic organisms	water	intermittent release
Benzyl salicylate	118-58-1	PNEC	80 mg/kg	aquatic organisms	water	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0 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	0.583 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	1.41 mg/kg	terrestrial organisms	soil	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	23.3 mg/kg	aquatic organisms	water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.084 mg/l	aquatic organisms	water	intermittent release
Aldehyde C-16	77-83-8	PNEC	0.008 mg/l	aquatic organisms	freshwater	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	8.4 µg/l	aquatic organisms	marine water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.214 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.021 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.038 mg/kg	terrestrial organisms	soil	short-term (single instance)
citral	5392-40-5	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)



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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
citral	5392-40-5	PNEC	0.001 mg/l	aquatic organ-isms	marine water	short-term (single instance)
citral	5392-40-5	PNEC	1.6 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
citral	5392-40-5	PNEC	0.125 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
citral	5392-40-5	PNEC	0.013 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
citral	5392-40-5	PNEC	0.021 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	37.2 µg/l	aquatic organ-isms	water	intermittent re-lease
Geranyl acetate	105-87-3	PNEC	3.72 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.372 µg/l	aquatic organ-isms	marine water	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	8 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.442 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.044 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.086 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Aldehyde C12 MNA	110-41-8	PNEC	0.66 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Aldehyde C12 MNA	110-41-8	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Aldehyde C12 MNA	110-41-8	PNEC	0.265 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Aldehyde C12 MNA	110-41-8	PNEC	26.5 µg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Aldehyde C12 MNA	110-41-8	PNEC	52.6 µg/kg	terrestrial organ-isms	soil	short-term (single instance)



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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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	various
Odor	characteristic



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Other safety parameters

pH (value)	4
Melting point/freezing point	not determined
Initial boiling point and boiling range	121 °C at 972.4 hPa
Flash point	94 °C
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	1,750 Pa at 20 °C
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	422 °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)	T2 (maximum permissible surface temperature on the equipment: 300°C)
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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

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

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
dipentene	138-86-3 5989-27-5 5989-54-8	dermal	2,000 mg/kg
Allyl Caproate	123-68-2	oral	100 mg/kg
Allyl Caproate	123-68-2	dermal	820 mg/kg
Allyl Caproate	123-68-2	inhalation: vapor	3 mg/l/4h



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Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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
dipentene	5989-27-5	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.

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
3,5,5-trimethylhexyl acetate	58430-94-7	LC50	7.7 mg/l	fish	96 h



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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
3,5,5-trimethylhexyl acetate	58430-94-7	EC50	>5.4 mg/l	aquatic invertebrates	24 h
3,5,5-trimethylhexyl acetate	58430-94-7	ErC50	>3.8 mg/l	algae	72 h
3,5,5-trimethylhexyl acetate	58430-94-7	NOEC	4 mg/l	fish	96 h
3,5,5-trimethylhexyl acetate	58430-94-7	growth rate (ErCx) 10%	0.65 mg/l	algae	72 h
Hexyl Acetate	142-92-7	EC50	9.1 mg/l	aquatic invertebrates	48 h
Hexyl Acetate	142-92-7	ErC50	12 mg/l	algae	72 h
Hexyl Acetate	142-92-7	NOEC	0.84 mg/l	aquatic invertebrates	48 h
Applinal	6413-10-1	LC50	>100 mg/l	fish	96 h
Applinal	6413-10-1	ErC50	>100 mg/l	algae	72 h
Applinal	6413-10-1	EC50	>100 mg/l	algae	72 h
Applinal	6413-10-1	NOEC	100 mg/l	algae	72 h
3-methylbutyl butyrate	106-27-4	LC50	3.47 mg/l	fish	96 h
3-methylbutyl butyrate	106-27-4	EC50	8.12 mg/l	aquatic invertebrates	48 h
3-methylbutyl butyrate	106-27-4	ErC50	4.68 mg/l	algae	72 h
3-methylbutyl butyrate	106-27-4	NOEC	3.88 mg/l	aquatic invertebrates	48 h
3-methylbutyl butyrate	106-27-4	growth (EbCx) 10%	7.36 mg/l	aquatic invertebrates	48 h
3-methylbutyl butyrate	106-27-4	growth rate (ErCx) 10%	3.13 mg/l	algae	72 h
Dihydromyrcenol	18479-58-8	LC50	27.8 mg/l	fish	96 h
Dihydromyrcenol	18479-58-8	EC50	38 mg/l	aquatic invertebrates	48 h
Dihydromyrcenol	18479-58-8	ErC50	80 mg/l	algae	72 h
Dihydromyrcenol	18479-58-8	NOEC	<3.5 mg/l	fish	96 h
Dihydromyrcenol	18479-58-8	LOEC	50 mg/l	algae	72 h
Linalyl acetate	115-95-7	ErC50	62 mg/l	algae	72 h



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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Linalyl acetate	115-95-7	LC50	11 mg/l	fish	96 h
Linalyl acetate	115-95-7	EC50	59 mg/l	aquatic invertebrates	48 h
Linalyl acetate	115-95-7	NOEC	25 mg/l	aquatic invertebrates	48 h
3-methyl-2-butenyl acetate	1191-16-8	LC50	25 mg/l	fish	24 h
3-methyl-2-butenyl acetate	1191-16-8	EC50	69.6 mg/l	aquatic invertebrates	48 h
3-methyl-2-butenyl acetate	1191-16-8	ErC50	>84.4 mg/l	algae	72 h
3-methyl-2-butenyl acetate	1191-16-8	NOEC	10.3 mg/l	fish	24 h
3-methyl-2-butenyl acetate	1191-16-8	growth rate (ErCx) 10%	>84 mg/l	algae	72 h
acetophenone	98-86-2	LC50	162 mg/l	fish	96 h
acetophenone	98-86-2	EC50	162 mg/l	fish	96 h
acetophenone	98-86-2	ErC50	86.4 mg/l	algae	72 h
acetophenone	98-86-2	NOEC	24.8 mg/l	algae	72 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
Linalool	78-70-6	growth (EbCx) 10%	38.4 mg/l	algae	96 h
Linalool	78-70-6	growth rate (ErCx) 10%	54.3 mg/l	algae	96 h
1-Butanol, 2-methyl-, 1-acetate	624-41-9	LC50	69 mg/l	fish	96 h
1-Butanol, 2-methyl-, 1-acetate	624-41-9	EC50	96.3 mg/l	aquatic invertebrates	24 h
1-Butanol, 2-methyl-, 1-acetate	624-41-9	ErC50	>466 mg/l	algae	96 h



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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
1-Butanol, 2-methyl-, 1-acetate	624-41-9	NOEC	3.77 mg/l	aquatic invertebrates	48 h
1-Butanol, 2-methyl-, 1-acetate	624-41-9	growth (EbCx) 10%	23.5 mg/l	algae	96 h
Dorisyl	32210-23-4	LC50	8.6 mg/l	fish	96 h
Dorisyl	32210-23-4	EC50	5.3 mg/l	aquatic invertebrates	48 h
Dorisyl	32210-23-4	ErC50	22 mg/l	algae	72 h
Dorisyl	32210-23-4	NOEC	6.8 mg/l	algae	72 h
Dorisyl	32210-23-4	growth rate (ErCx) 10%	11 mg/l	algae	72 h
2,6-dimethylheptan-2-ol	13254-34-7	LC50	<46.4 mg/l	fish	96 h
2,6-dimethylheptan-2-ol	13254-34-7	EC50	24.18 mg/l	aquatic invertebrates	48 h
2,6-dimethylheptan-2-ol	13254-34-7	ErC50	23.77 mg/l	algae	72 h
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	LC50	15 mg/l	fish	96 h
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	EC50	7.74 mg/l	aquatic invertebrates	48 h
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	ErC50	22.8 mg/l	algae	72 h
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	NOEC	3.83 mg/l	algae	72 h
Allyl Caproate	123-68-2	LC50	0.201 mg/l	fish	24 h
Allyl Caproate	123-68-2	EC50	2 mg/l	aquatic invertebrates	48 h
Allyl Caproate	123-68-2	ErC50	>4.6 mg/l	algae	72 h
Allyl Caproate	123-68-2	NOEC	0.158 mg/l	algae	72 h
Allyl Caproate	123-68-2	LOEC	0.505 mg/l	algae	72 h
Allyl Caproate	123-68-2	growth rate (ErCx) 10%	0.255 mg/l	algae	72 h
ethyl butyrate	105-54-4	LC50	≥100 mg/l	fish	96 h



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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethyl butyrate	105-54-4	EC50	116.6 mg/l	aquatic invertebrates	48 h
ethyl butyrate	105-54-4	LOEC	236 mg/l	microorganisms	72 h
DMBC Acetate	151-05-3	EC50	21.3 mg/l	aquatic invertebrates	24 h
DMBC Acetate	151-05-3	growth (EbCx) 10%	12.2 mg/l	aquatic invertebrates	24 h
Benzyl salicylate	118-58-1	LC50	1.03 mg/l	fish	96 h
Benzyl salicylate	118-58-1	EC50	1.21 mg/l	aquatic invertebrates	24 h
Benzyl salicylate	118-58-1	ErC50	1.29 mg/l	algae	72 h
Benzyl salicylate	118-58-1	NOEC	0.894 mg/l	aquatic invertebrates	48 h
Aldehyde C-16	77-83-8	LC50	4.2 mg/l	fish	96 h
Aldehyde C-16	77-83-8	EC50	95 mg/l	aquatic invertebrates	24 h
Aldehyde C-16	77-83-8	ErC50	36 mg/l	algae	72 h
Aldehyde C-16	77-83-8	NOEC	3.2 mg/l	fish	96 h
Aldehyde C-16	77-83-8	LOEC	20 mg/l	algae	72 h
Aldehyde C-16	77-83-8	growth (EbCx) 10%	80 mg/l	aquatic invertebrates	24 h
citral	5392-40-5	LC50	6.78 mg/l	fish	96 h
citral	5392-40-5	EC50	6.8 mg/l	aquatic invertebrates	48 h
citral	5392-40-5	ErC50	103.8 mg/l	algae	72 h
citral	5392-40-5	NOEC	4.6 mg/l	fish	96 h
citral	5392-40-5	growth rate (ErCx) 10%	3 mg/l	algae	72 h
Geranyl acetate	105-87-3	LC50	68.12 mg/l	fish	96 h
Geranyl acetate	105-87-3	EC50	14.1 mg/l	aquatic invertebrates	48 h
Geranyl acetate	105-87-3	ErC50	3.72 mg/l	algae	72 h
Geranyl acetate	105-87-3	NOEC	10 mg/l	fish	96 h
Aldehyde C12 MNA	110-41-8	LC50	>0.46 mg/l	fish	24 h



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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Aldehyde C12 MNA	110-41-8	EC50	0.21 mg/l	aquatic invertebrates	48 h
Aldehyde C12 MNA	110-41-8	ErC50	0.18 mg/l	algae	72 h
Aldehyde C12 MNA	110-41-8	NOEC	0.11 mg/l	fish	96 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
3,5,5-trimethylhexyl acetate	58430-94-7	EC50	>5.4 mg/l	aquatic invertebrates	24 h
3,5,5-trimethylhexyl acetate	58430-94-7	NOEC	100 mg/l	microorganisms	32 d
Hexyl Acetate	142-92-7	EC50	1,000 mg/l	microorganisms	30 min
Hexyl Acetate	142-92-7	NOEC	100 mg/l	microorganisms	30 min
Applinal	6413-10-1	EC50	>1,000 mg/l	microorganisms	3 h
Applinal	6413-10-1	NOEC	1,000 mg/l	microorganisms	3 h
Dihydromyrcenol	18479-58-8	EC50	17 mg/l	aquatic invertebrates	21 d
Dihydromyrcenol	18479-58-8	NOEC	9.5 mg/l	aquatic invertebrates	21 d
Linalyl acetate	115-95-7	LC50	11.14 mg/l	fish	20 h
Linalyl acetate	115-95-7	NOEC	>25.7 mg/l	microorganisms	28 d
3-methyl-2-butenyl acetate	1191-16-8	LC50	25 mg/l	fish	24 h
3-methyl-2-butenyl acetate	1191-16-8	NOEC	10.3 mg/l	fish	24 h
3-methyl-2-butenyl acetate	1191-16-8	growth (EbCx) 10%	>1,000 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
Linalool	78-70-6	growth (EbCx) 10%	>100 mg/l	microorganisms	3 h

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1-Butanol, 2-methyl-, 1-acetate	624-41-9	EC50	>1,000 mg/l	microorganisms	30 min
1-Butanol, 2-methyl-, 1-acetate	624-41-9	growth (EbCx) 20%	>1,000 mg/l	microorganisms	30 min
Dorisyl	32210-23-4	EC50	302 mg/l	microorganisms	3 h
Dorisyl	32210-23-4	growth (EbCx) 10%	122 mg/l	microorganisms	3 h
ethyl butyrate	105-54-4	NOEC	1.483 mg/l	fish	28 d
DMBC Acetate	151-05-3	EC50	684 mg/l	microorganisms	3 h
DMBC Acetate	151-05-3	NOEC	312.5 mg/l	microorganisms	3 h
DMBC Acetate	151-05-3	LOEC	1,000 mg/l	microorganisms	3 h
Benzyl salicylate	118-58-1	EC50	1.21 mg/l	aquatic invertebrates	24 h
Benzyl salicylate	118-58-1	LC50	4.34 mg/l	aquatic invertebrates	24 h
Aldehyde C-16	77-83-8	EC50	95 mg/l	aquatic invertebrates	24 h
Aldehyde C-16	77-83-8	growth (EbCx) 10%	80 mg/l	aquatic invertebrates	24 h
citral	5392-40-5	EC50	160 mg/l	microorganisms	30 min
citral	5392-40-5	growth (EbCx) 20%	68 mg/l	microorganisms	30 min
Geranyl acetate	105-87-3	growth (EbCx) 20%	800 mg/l	microorganisms	30 min
Aldehyde C12 MNA	110-41-8	NOEC	33 µg/l	aquatic invertebrates	21 d
Aldehyde C12 MNA	110-41-8	LOEC	59 µg/l	aquatic invertebrates	21 d

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.



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12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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	3082
IMDG-Code	3082
ICAO-TI	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.
Technical name (hazardous ingredients)	3,5,5-trimethylhexyl acetate, dipentene

14.3 Transport hazard class(es)

DOT	9
IMDG-Code	9
ICAO-TI	9



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14.4 Packing group

DOT	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	3,5,5-trimethylhexyl acetate, dipentene

14.6 Special precautions for user

There is no additional information.

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

The cargo is not intended to be carried in bulk.

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

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

Particulars in the shipper's declaration UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 3,5,5-trimethylhexyl acetate, dipentene), 9, III

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

Particulars in the shipper's declaration UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: 3,5,5-trimethylhexyl acetate, dipentene), 9, III

Marine pollutant yes (hazardous to the aquatic environment) (3,5,5-trimethylhexyl acetate)

Danger label(s) 9, fish and tree

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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

Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 3,5,5-trimethylhexyl acetate, dipentene), 9, III
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
acetophenone	98-86-2		1994-01-01



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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)
acetophenone	98-86-2		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	Name acc. to inventory	CAS No	Functional-ity	Authoritative Lists
Dipentene	d-Limonene	5989-27-5		EU Fragrance Allergens
Acetophenone	Acetophenone	98-86-2		CA TACs
Linalool	Linalool	78-70-6		EU Fragrance Allergens
DorisyI		32210-23-4	fragrance	
Benzyl salicylate	Benzyl salicylate	118-58-1		EU Fragrance Allergens
Citral	Citral	5392-40-5		EU Fragrance Allergens

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	Name acc. to inventory	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Thres hold	De Minimis Concentra-tion Threshold
acetophenone	Acetophenone	98-86-2				1.0 %
1-Butanol, 2-methyl-, 1-acetate	iso-Amyl acetate	123-92-2				1.0 %
1-Butanol, 2-methyl-, 1-acetate	sec-Amyl acetate	626-38-0				1.0 %



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- Hazardous Substances List (MN-ERTK)

Name of substance	Name acc. to inventory	CAS No	References	Remarks
Benzyl acetate	Benzyl acetate	140-11-4	A	
BHT	2,6-Di-tert-butyl-p-cresol	128-37-0	A	
acetophenone	Acetophenone	98-86-2	A, I	
1-Butanol, 2-methyl-, 1-acetate	Isoamyl acetate	123-92-2	A, O	
1-Butanol, 2-methyl-, 1-acetate	sec-Amyl acetate	626-38-0	A, O	
1-Butanol, 2-methyl-, 1-acetate	n-Amyl acetate	628-63-7	A, O	

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
I American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA
O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

- Hazardous Substance List (NJ-RTK)

Name of substance	Name acc. to inventory	CAS No	Remarks	Classifications
Benzyl acetate	benzyl acetate (acetic acid, phenylmethyl ester)	140-11-4		F2
dipentene	dipentene	138-86-3		F2
BHT	2,6-di-tert-butyl-p-cresol (phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-)	128-37-0		
acetophenone	acetophenone	98-86-2		F2
1-Butanol, 2-methyl-, 1-acetate	isoamyl acetate	123-92-2		F3
1-Butanol, 2-methyl-, 1-acetate	sec-amyl acetate (2-pentyl acetate)	626-38-0		F3
1-Butanol, 2-methyl-, 1-acetate	n-amyl acetate (1-pentyl acetate)	628-63-7		F3
ethyl butyrate	ethyl butyrate	105-54-4		CO F3

Legend

CO Corrosive
F2 Flammable - Second Degree
F3 Flammable - Third Degree



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

Name of substance	Name acc. to inventory	CAS No	Classification
BHT	PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYL-	128-37-0	
acetophenone	ETHANONE, 1-PHENYL-	98-86-2	E
1-Butanol, 2-methyl-, 1-acetate	1-BUTANOL, 3-METHYL-, ACETATE	123-92-2	E
1-Butanol, 2-methyl-, 1-acetate	2-PENTANOL, ACETATE	626-38-0	E
1-Butanol, 2-methyl-, 1-acetate	ACETIC ACID, PENTYL ESTER	628-63-7	E
ethyl butyrate	BUTANOIC ACID, ETHYL ESTER	105-54-4	

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	Name acc. to inventory	CAS No	References
BHT	2,6-Ditert. butyl-p-cresol	128-37-0	T
acetophenone	acetophenone	98-86-2	F
1-Butanol, 2-methyl-, 1-acetate	Isoamyl acetate	123-92-2	T
1-Butanol, 2-methyl-, 1-acetate	sec-Amyl acetate	626-38-0	T
1-Butanol, 2-methyl-, 1-acetate	n-Amyl acetate	628-63-7	T

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

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.



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Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur
Flammability	1	material that must be preheated 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	1	material that must be preheated 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		

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
3.2		Description of the mixture: change in the listing (table)	yes
9.1	Explosive limits: not determined		yes
12.7	Other adverse effects	Other adverse effects: Data are not available.	yes
14.1	UN number: 3082	UN number	yes
14.1		DOT: 3082	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.1		IMDG-Code: 3082	yes
14.1		ICAO-TI: 3082	yes
14.2	UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.	UN proper shipping name	yes
14.2		DOT: Environmentally hazardous substance, liquid, n.o.s.	yes
14.2		IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S.	yes
14.2		ICAO-TI: Environmentally hazardous substance, liquid, n.o.s.	yes
14.3	Class: 9 (environmentally hazardous)		yes
14.3		DOT: 9	yes
14.3		IMDG-Code: 9	yes
14.3		ICAO-TI: 9	yes
14.4	Packing group: III (substance presenting low danger)	Packing group	yes
14.4		DOT: III	yes
14.4		IMDG-Code: III	yes
14.4		ICAO-TI: III	yes
14.7	Index number: 3082		yes
14.7	Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.		yes
14.7	Class: 9		yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.7	Packing group: III		yes
14.7	UN number: 3082		yes
14.7	Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	Marine pollutant: yes (hazardous to the aquatic environment)	Marine pollutant: yes (hazardous to the aquatic environment) (3,5,5-trimethylhexyl acetate)	yes
14.7	UN number: 3082		yes
14.7	Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
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)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)



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Abbr.	Descriptions of used abbreviations
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
EmS	Emergency Schedule
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
IATA	International Air Transport Association
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
LOEC	Lowest Observed Effect Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NOEC	No Observed Effect Concentration



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Refresh Your Car Mini Diffuser Fresh Strawberry/Cool Lemonade

Version number: 2.0
Replaces version of: 2020-12-07 (1)

Revision: 2020-12-15

Abbr.	Descriptions of used abbreviations
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
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
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 chapter 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.



Safety Data Sheet

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Code	Text
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

Disclaimer

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