



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

SECTION 1: Identification

1.1 Product identifier

Trade name **Refresh Mini Diffuser - Crisp Sunrise 1-3-19**

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

Relevant identified uses **General use**

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: energizer@custhelp.com
Website: <http://data.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.4S	skin sensitization	1	Skin Sens. 1	H317
B.6	flammable liquid	4	Flam. Liq. 4	H227

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

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

2.2 Label elements

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

- Signal word **warning**
- Pictograms

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

GHS07



- Hazard statements

- H227 Combustible liquid.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.

- Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P103 Read label before use.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- 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.
- P321 Specific treatment (see on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash it 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.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

Vertenex, delta-Damascone, (S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one, geranyl acetate, 3,4,5,6,6-pentamethylhept-3-en-2-one, Linalool, Methyl Ionone, Cyclamal, benzyl salicylate, dimethylcyclohex-3-ene-1-carbaldehyde, dipentene, Dynascone, dodecanal, dihydro pentamethylindanone, Eugenol, Coumarin

2.3 Other hazards

This material is combustible, but will not ignite readily.

Hazards not otherwise classified

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.

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19












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
Vertenex	CAS No 32210-23-4	10 - < 25	Skin Sens. 1B / H317	
Dihydromyrcenol	CAS No 18479-58-8	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Flam. Liq. 4 / H227	
Undecavertol	CAS No 81782-77-6	1 - < 5	Flam. Liq. 4 / H227	
3,4,5,6,6-pentamethylhept-3-en-2-one	CAS No 86115-11-9	1 - < 5	Skin Sens. 1B / H317	
Linalool	CAS No 78-70-6	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Methyl Ionone	CAS No 127-51-5	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
6,6-dimethylbicyclo[3.1.1]hept-2-ene-2-propanal	CAS No 33885-51-7	1 - < 5	Acute Tox. 3 / H301	
Cyclamal	CAS No 103-95-7	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	
benzyl salicylate	CAS No 118-58-1	1 - < 5	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
geranyl acetate	CAS No 105-87-3	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
dimethylcyclohex-3-ene-1-carbaldehyde	CAS No 27939-60-2	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
dipentene	CAS No 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	

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
delta-Damascone	CAS No 57378-68-4	1 – < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
dodecanal	CAS No 112-54-9	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	CAS No 2244-16-8	1 – < 5	Skin Sens. 1 / H317	
Eugenol	CAS No 97-53-0	1 – < 5	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Coumarin	CAS No 91-64-5	1 – < 5	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Skin Sens. 1 / H317	
Melonal	CAS No 106-72-9	1 – < 5	Flam. Liq. 3 / H226	
Dynascone	CAS No 56973-85-4	< 1	Skin Sens. 1 / H317	
allyl heptanoate	CAS No 142-19-8	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Flam. Liq. 4 / H227	
dihydro pentamethylindanone	CAS No 33704-61-9	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / 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.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Following eye contact

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

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products

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.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

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

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

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

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

- Specific notes/details

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

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

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

- Flammability hazards

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



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

- Ventilation requirements
Use local and general ventilation. Ground/bond container and receiving equipment.
- Packaging compatibilities
Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	2,6-di-tert-butyl-p-cresol	128-37-0	PEL (CA)		10						Ca/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

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)

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
Dihydromyrcenol	18479-58-8	DNEL	20.8 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	73.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Undecavertol	81782-77-6	DNEL	0.5 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Undecavertol	81782-77-6	DNEL	0.88 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

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
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
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
Cyclamal	103-95-7	DNEL	1.67 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Cyclamal	103-95-7	DNEL	5.83 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
benzyl salicylate	118-58-1	DNEL	3.17 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
benzyl salicylate	118-58-1	DNEL	0.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic 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
dodecanal	112-54-9	DNEL	14.1 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
dodecanal	112-54-9	DNEL	49.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	DNEL	47,500 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	DNEL	12 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Eugenol	97-53-0	DNEL	21.2 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Eugenol	97-53-0	DNEL	6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	0.84 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	0.741 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

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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
allyl heptanoate	142-19-8	DNEL	4.7 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
allyl heptanoate	142-19-8	DNEL	16 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Vertenex	32210-23-4	PNEC	5.3 µg/l	aquatic organisms	freshwater	short-term (single instance)
Vertenex	32210-23-4	PNEC	0.53 µg/l	aquatic organisms	marine water	short-term (single instance)
Vertenex	32210-23-4	PNEC	12.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Vertenex	32210-23-4	PNEC	2.01 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Vertenex	32210-23-4	PNEC	0.21 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Vertenex	32210-23-4	PNEC	66.67 mg/kg	aquatic organisms	water	short-term (single instance)
Vertenex	32210-23-4	PNEC	0.42 mg/kg	terrestrial organisms	soil	short-term (single instance)
Vertenex	32210-23-4	PNEC	53 µg/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	0.0594 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	111 mg/kg	aquatic organisms	water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

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	0.278 mg/l	aquatic organisms	water	intermittent release
Undecavertol	81782-77-6	PNEC	0.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Undecavertol	81782-77-6	PNEC	0.04 µg/l	aquatic organisms	marine water	short-term (single instance)
Undecavertol	81782-77-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Undecavertol	81782-77-6	PNEC	0.04484 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Undecavertol	81782-77-6	PNEC	0.004484 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Undecavertol	81782-77-6	PNEC	111.1 mg/kg	aquatic organisms	water	short-term (single instance)
Undecavertol	81782-77-6	PNEC	0.00945 mg/kg	terrestrial organisms	soil	short-term (single instance)
Undecavertol	81782-77-6	PNEC	0.004 mg/l	aquatic organisms	water	intermittent release
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)
Cyclamal	103-95-7	PNEC	1.09 µg/l	aquatic organisms	freshwater	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.11 µg/l	aquatic organisms	marine water	short-term (single instance)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

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Cyclamal	103-95-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.126 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.0126 mg/kg	aquatic organisms	marine sediment	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	0.0245 mg/kg	terrestrial organisms	soil	short-term (single instance)
Cyclamal	103-95-7	PNEC	10.92 µg/l	aquatic organisms	water	intermittent release
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)
geranyl acetate	105-87-3	PNEC	37.2 µg/l	aquatic organisms	water	intermittent release
geranyl acetate	105-87-3	PNEC	3.72 µg/l	aquatic organisms	freshwater	short-term (single instance)
geranyl acetate	105-87-3	PNEC	0.372 µg/l	aquatic organisms	marine water	short-term (single instance)
geranyl acetate	105-87-3	PNEC	8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
geranyl acetate	105-87-3	PNEC	0.442 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

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geranyl acetate	105-87-3	PNEC	0.044 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
geranyl acetate	105-87-3	PNEC	0.086 mg/kg	terrestrial organisms	soil	short-term (single instance)
dodecanal	112-54-9	PNEC	0.0035 mg/l	aquatic organisms	freshwater	short-term (single instance)
dodecanal	112-54-9	PNEC	0.00035 mg/l	aquatic organisms	marine water	short-term (single instance)
dodecanal	112-54-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
dodecanal	112-54-9	PNEC	1.41 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
dodecanal	112-54-9	PNEC	0.141 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
dodecanal	112-54-9	PNEC	313 mg/kg	aquatic organisms	water	short-term (single instance)
dodecanal	112-54-9	PNEC	0.278 mg/kg	terrestrial organisms	soil	short-term (single instance)
dodecanal	112-54-9	PNEC	0.035 mg/l	aquatic organisms	water	intermittent release
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	PNEC	50 µg/l	aquatic organisms	freshwater	short-term (single instance)
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	PNEC	5 µg/l	aquatic organisms	marine water	short-term (single instance)
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	PNEC	20.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	PNEC	0.861 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	PNEC	86.1 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	PNEC	0.143 mg/kg	terrestrial organisms	soil	short-term (single instance)
Eugenol	97-53-0	PNEC	11.3 µg/l	aquatic organisms	water	intermittent release



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Eugenol	97-53-0	PNEC	1.13 µg/l	aquatic organisms	freshwater	short-term (single instance)
Eugenol	97-53-0	PNEC	0.113 µg/l	aquatic organisms	marine water	short-term (single instance)
Eugenol	97-53-0	PNEC	0.081 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Eugenol	97-53-0	PNEC	0.008 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Eugenol	97-53-0	PNEC	0.015 mg/kg	terrestrial organisms	soil	short-term (single instance)
Coumarin	91-64-5	PNEC	0.0056 mg/l	aquatic organisms	freshwater	short-term (single instance)
Coumarin	91-64-5	PNEC	0.00056 mg/l	aquatic organisms	marine water	short-term (single instance)
Coumarin	91-64-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Coumarin	91-64-5	PNEC	0.207 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.0207 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.0217 mg/kg	terrestrial organisms	soil	short-term (single instance)
Coumarin	91-64-5	PNEC	0.056 mg/l	aquatic organisms	water	intermittent release
allyl heptanoate	142-19-8	PNEC	0.12 µg/l	aquatic organisms	freshwater	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	0.012 µg/l	aquatic organisms	marine water	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	0.0012 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	0.012 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	51.78 mg/kg	aquatic organisms	water	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	0.00233 mg/kg	terrestrial organisms	soil	short-term (single instance)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
allyl heptanoate	142-19-8	PNEC	1.2 µg/l	aquatic organisms	water	intermittent re-release

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

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

- Other protection measures

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	various
Odor	characteristic



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	193 °C at 100.9 kPa
Flash point	76 °C
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapor pressure	2,066 Pa at 25 °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	
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Solvent content	45.5 %
Solid content	3.5 %



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

SECTION 10: Stability and reactivity

10.1 Reactivity

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

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

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

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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

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

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
6,6-dimethylbicyclo[3.1.1]hept-2-ene-2-propanal	33885-51-7	oral	200 mg/kg



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

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
delta-Damascone	57378-68-4	oral	500 mg/kg
Coumarin	91-64-5	oral	293 mg/kg
Coumarin	91-64-5	dermal	300 mg/kg
Coumarin	91-64-5	inhalation: dust/mist	0.5 mg/l/4h
allyl heptanoate	142-19-8	oral	100 mg/kg
allyl heptanoate	142-19-8	dermal	810 mg/kg
allyl heptanoate	142-19-8	inhalation: vapor	3 mg/l/4h

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

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	
Coumarin	91-64-5	3	
Eugenol	97-53-0	3	

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

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
Vertenex	32210-23-4	LC50	8.6 mg/l	fish	96 h
Vertenex	32210-23-4	EC50	5.3 mg/l	aquatic invertebrates	48 h
Dihydromyrcenol	18479-58-8	EC50	38 mg/l	aquatic invertebrates	48 h
Dihydromyrcenol	18479-58-8	ErC50	80 mg/l	algae	72 h
Undecavertol	81782-77-6	EC50	1.4 mg/l	algae	72 h
Undecavertol	81782-77-6	ErC50	3.6 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
6,6-dimethylbicyclo[3.1.1]hept-2-ene-2-propanal	33885-51-7	EC50	0.67 mg/l	aquatic invertebrates	48 h
6,6-dimethylbicyclo[3.1.1]hept-2-ene-2-propanal	33885-51-7	ErC50	4.2 mg/l	algae	72 h
Cyclamal	103-95-7	LC50	1.092 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
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



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
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
dodecanal	112-54-9	LC50	2.6 mg/l	fish	96 h
dodecanal	112-54-9	EC50	>0.27 mg/l	aquatic invertebrates	48 h
dodecanal	112-54-9	ErC50	0.042 mg/l	algae	72 h
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	LC50	50 mg/l	fish	96 h
Eugenol	97-53-0	LC50	13 mg/l	fish	24 h
Eugenol	97-53-0	EC50	1.05 mg/l	aquatic invertebrates	48 h
Eugenol	97-53-0	ErC50	24 mg/l	algae	72 h
Coumarin	91-64-5	LC50	1.324 mg/l	fish	96 h
Coumarin	91-64-5	EC50	8.012 mg/l	aquatic invertebrates	48 h
allyl heptanoate	142-19-8	EC50	0.89 mg/l	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Dihydromyrcenol	18479-58-8	EC50	47 mg/l	aquatic invertebrates	24 h
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
Cyclamal	103-95-7	EC50	100 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
Eugenol	97-53-0	LC50	13 mg/l	fish	24 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Endocrine disrupting potential

The mixture contains substance(s) with an endocrine disrupting potential.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

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

Waste treatment of containers/packages

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

Remarks

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

SECTION 14: Transport information

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	2-t-Butylcyclohexyl Acetate , BHT
14.3 Transport hazard class(es)	
Class	9 (environmentally hazardous)
14.4 Packing group	III (substance presenting low danger)
14.5 Environmental hazards	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	2-t-Butylcyclohexyl Acetate , BHT
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.	



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

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

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

Index number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
- Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 2-t-Butylcyclohexyl Acetate, BHT), 9, III
Class	9
Packing group	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)

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Marine pollutant	YES (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	9, fish and tree
 	
Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Class	9
Environmental hazards	YES (hazardous to the aquatic environment)
Packing group	III
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)

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

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

Name of substance	CAS No	Functionality	Authoritative Lists
2-t-Butylcyclohexyl Acetate	88-41-5	fragrance	
Vertenex	32210-23-4	fragrance	
Dihydromyrcenol	18479-58-8	fragrance	



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Name of substance	CAS No	Functionality	Authoritative Lists
BHT	128-37-0	preservative	
Undecavertol	81782-77-6	fragrance	
Benzoic acid, 2-hydroxy-, cyclohexyl ester	25485-88-5	fragrance	
dipentene	5989-27-5	fragrance	EU Fragrance Allergens
dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	fragrance	
Coumarin	91-64-5	fragrance	EU Fragrance Allergens
Linalool	78-70-6	fragrance	EU Fragrance Allergens
benzyl salicylate	118-58-1	fragrance	EU Fragrance Allergens
geranyl acetate	105-87-3	fragrance	
Eugenol	97-53-0	fragrance	EU Fragrance Allergens
Cyclamal	103-95-7	fragrance	
Methyl Ionone	127-51-5	fragrance	EU Fragrance Allergens
1,3,4,6,7,8a-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalen-8(5H)-one	23787-90-8	fragrance	
(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	fragrance	
6,6-dimethylbicyclo[3.1.1]hept-2-ene-2-propanal	33885-51-7	fragrance	
dodecanal	112-54-9	fragrance	
delta-Damascone	57378-68-4	fragrance	
3,4,5,6,6-pentamethylhept-3-en-2-one	86115-11-9	fragrance	
Myrmac Aldehyde	52475-86-2	fragrance	
Melonal	106-72-9	fragrance	
Isohexenyl cyclohexenyl carboxaldehyde	37677-14-8	fragrance	
allyl heptanoate	142-19-8	fragrance	
(+/-) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)pent-4-en-2-ol	107898-54-4	fragrance	
dihydro pentamethylindanone	33704-61-9	fragrance	
Caryophyllene	87-44-5	fragrance	
Dynascone	56973-85-4	fragrance	

- Toxic or Hazardous Substance List (MA-TURA)

none of the ingredients are listed



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
BHT	128-37-0	A	
BHT		A	dust

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
 dust If the substance poses an airborne particulate exposure hazard, the substance is followed by the word "dust."

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
dipentene	138-86-3		F2
BHT	128-37-0		

Legend

F2 Flammable - Second Degree

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

Name of substance	CAS No	Classification
BHT	128-37-0	

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
BHT	128-37-0	T

Legend

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.

Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Category	Rating	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

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

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	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	AICS	all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	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	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	not all ingredients are listed



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Legend

AICS	Australian Inventory of Chemical Substances
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
NDSL	Non-domestic Substances List (NDSL)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
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

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
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
ELINCS	European List of Notified Chemical Substances
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



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

Abbr.	Descriptions of used abbreviations
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
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
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
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
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).



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Mini Diffuser - Crisp Sunrise 1-3-19

Version number: 1.1

Date of compilation: 2020-01-19

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.
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.

Disclaimer

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