



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Shine Scents: Clean N' Shine

Version number: GHS 1.0

Date of compilation: 2023-11-10

SECTION 1: Identification

1.1 Product identifier

Trade name

Shine Scents: Clean N' Shine

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

Relevant identified uses

Air freshener
Concentrate
Professional use
Industrial use

1.3 Details of the supplier of the safety data sheet

Shine Supply
1302 Tower Square, Unit 1
Ventura, CA. 93003
805-535-4332
info@shinesupply.com

1.4 Emergency telephone number

Emergency information service

USA 1.800.535.5053, INTL 1.352.323.3500
24 hour emergency number

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.1O	acute toxicity (oral)	4	Acute Tox. 4	H302
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.7	reproductive toxicity	2	Repr. 2	H361
B.6	flammable liquid	4	Flam. Liq. 4	H227

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

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

2.2 Label elements

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

- Signal word danger



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- Pictograms

GHS05, GHS07, GHS08



- Hazard statements

H227	Combustible liquid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child.

- Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

Alcohols, C9-11 ethoxylated, Lime oil, 2-(4-tert-butylbenzyl)propionaldehyde, Alcohols, C11-15- secondary, ethoxylated, Butanoic acid, 1,1-dimethyl-2-phenylethyl ester, Lemon oil, di-Citronellol, Geranyl acetate, benzyl salicylate, Geraniol, citral

2.3 Other hazards

This material is combustible, but will not ignite readily.

Hazards not otherwise classified

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

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

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



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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	Identifier	Wt%	Classification acc. to GHS	Notes
Alcohols, C9-11 ethoxylated	CAS No 68439-46-3	55 - < 70	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Eye Dam. 1 / H318	
Alcohols, C11-15- secondary, ethoxylated	CAS No 84133-50-6	20 - < 40	Skin Irrit. 2 / H315 Eye Dam. 1 / H318	
linalool	CAS No 78-70-6	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
Lemon oil	CAS No 8008-56-8	0.1 - < 1	Skin Irrit. 2 / H315 Eye Irrit. 2A / H319 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Lime oil	CAS No 68917-71-5	0.1 - < 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
citral	CAS No 5392-40-5	0.1 - < 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317	
di-Citronellol	CAS No 106-22-9	0.1 - < 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Butanoic acid, 1,1-dimethyl-2-phenylethyl ester	CAS No 10094-34-5	0.1 - < 1	Skin Irrit. 2 / H315 Eye Irrit. 2B / H320 Skin Sens. 1 / H317	
Geraniol	CAS No 106-24-1	0.1 - < 1	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317	
benzaldehyde	CAS No 100-52-7	0.1 - < 1	Acute Tox. 4 / H302 Acute Tox. 3 / H331 Flam. Liq. 4 / H227	
benzyl salicylate	CAS No 118-58-1	0.1 - < 1	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
2-(4-tert-butylbenzyl)propionaldehyde	CAS No 80-54-6	0.1 - < 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Repr. 2 / H361	



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Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Geranyl acetate	CAS No 105-87-3	0.1 - < 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	

Hazardous ingredients, Consideration of other advice

Exact percentage of ingredients is withheld as a trade secret.

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

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

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

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

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, 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.



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Hazardous combustion products

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

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

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

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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.



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- Specific notes/details

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

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

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

- Flammability hazards

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

- Ventilation requirements

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

7.3 Specific end use(s)

See section 16 for a general overview.

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	citral	5392-40-5	TLV®	5						iv, H	AC-GIH® 2019

Notation

Ceiling-C

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

H absorbed through the skin

iv inhalable fraction and vapor

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

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



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Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Alcohols, C9-11 ethoxylated	68439-46-3	DNEL	2,080 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, C9-11 ethoxylated	68439-46-3	DNEL	294 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
linalool	78-70-6	DNEL	2.8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
linalool	78-70-6	DNEL	16 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Lemon oil	8008-56-8	DNEL	23 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Lemon oil	8008-56-8	DNEL	6.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lime oil	68917-71-5	DNEL	19 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Lime oil	68917-71-5	DNEL	5.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lime oil	68917-71-5	DNEL	186 µg/cm ²	human, dermal	worker (industry)	acute - local 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
di-Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
di-Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
di-Citronellol	106-22-9	DNEL	327 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
di-Citronellol	106-22-9	DNEL	162 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	12 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	4.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Geraniol	106-24-1	DNEL	11,800 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
benzaldehyde	100-52-7	DNEL	9.8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
benzaldehyde	100-52-7	DNEL	9.8 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
benzaldehyde	100-52-7	DNEL	1.1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	63 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	36 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
benzyl salicylate	118-58-1	DNEL	0.9 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
benzyl salicylate	118-58-1	DNEL	3.2 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	DNEL	0.44 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	DNEL	1.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	DNEL	410 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	DNEL	410 µg/cm ²	human, dermal	worker (industry)	acute - local effects

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.1 mg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	1.4 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)



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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	14 mg/kg	benthic organisms	sediment	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	14 mg/kg	pelagic organisms	sediment	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.014 mg/l	aquatic organisms	water	intermittent release
linalool	78-70-6	PNEC	7.8 mg/kg	aquatic organisms	water	short-term (single instance)
linalool	78-70-6	PNEC	2 mg/l	aquatic organisms	water	intermittent release
linalool	78-70-6	PNEC	0.2 mg/l	aquatic organisms	freshwater	short-term (single instance)
linalool	78-70-6	PNEC	0.02 mg/l	aquatic organisms	marine water	short-term (single instance)
linalool	78-70-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
linalool	78-70-6	PNEC	2.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
linalool	78-70-6	PNEC	0.22 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
linalool	78-70-6	PNEC	0.33 mg/kg	terrestrial organisms	soil	short-term (single instance)
Lemon oil	8008-56-8	PNEC	5.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Lemon oil	8008-56-8	PNEC	0.54 µg/l	aquatic organisms	marine water	short-term (single instance)
Lemon oil	8008-56-8	PNEC	2.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lemon oil	8008-56-8	PNEC	1.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Lemon oil	8008-56-8	PNEC	0.13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Lemon oil	8008-56-8	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
Lime oil	68917-71-5	PNEC	5.4 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
Lime oil	68917-71-5	PNEC	0.54 µg/l	aquatic organisms	marine water	short-term (single instance)
Lime oil	68917-71-5	PNEC	2.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lime oil	68917-71-5	PNEC	1.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Lime oil	68917-71-5	PNEC	0.13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Lime oil	68917-71-5	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
citral	5392-40-5	PNEC	0.068 mg/l	aquatic organisms	water	intermittent release
citral	5392-40-5	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)
citral	5392-40-5	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
citral	5392-40-5	PNEC	1.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
citral	5392-40-5	PNEC	0.13 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
citral	5392-40-5	PNEC	0.013 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
citral	5392-40-5	PNEC	0.021 mg/kg	terrestrial organisms	soil	short-term (single instance)
di-Citronellol	106-22-9	PNEC	0.0024 mg/l	aquatic organisms	freshwater	short-term (single instance)
di-Citronellol	106-22-9	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
di-Citronellol	106-22-9	PNEC	0.00024 mg/l	aquatic organisms	marine water	short-term (single instance)
di-Citronellol	106-22-9	PNEC	0.026 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
di-Citronellol	106-22-9	PNEC	0.0026 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
di-Citronellol	106-22-9	PNEC	0.0037 mg/kg	terrestrial organisms	soil	short-term (single instance)
di-Citronellol	106-22-9	PNEC	0.024 mg/l	aquatic organisms	water	intermittent release
Geraniol	106-24-1	PNEC	0.11 mg/l	aquatic organisms	water	intermittent release



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Geraniol	106-24-1	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Geraniol	106-24-1	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Geraniol	106-24-1	PNEC	0.7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Geraniol	106-24-1	PNEC	0.12 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.011 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.017 mg/kg	terrestrial organisms	soil	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
benzaldehyde	100-52-7	PNEC	7.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0.022 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0.002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0.003 mg/kg	terrestrial organisms	soil	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	3.7 µg/l	aquatic organisms	freshwater	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	37 µg/l	aquatic organisms	water	intermittent release
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	0.44 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
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)
Geranyl acetate	105-87-3	PNEC	0.37 µg/l	aquatic organisms	marine water	short-term (single instance)



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benzyl salicylate	118-58-1	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.0001 mg/l	aquatic organisms	marine water	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.58 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.058 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	80 mg/kg	aquatic organisms	water	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.12 mg/kg	terrestrial organisms	soil	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.01 mg/l	aquatic organisms	water	intermittent release
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	PNEC	0.02 mg/l	aquatic organisms	water	intermittent release
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	PNEC	0.004 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	PNEC	0.53 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	PNEC	0.053 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	PNEC	0.1 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.



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Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. According to EN166 .

Skin protection

- Hand protection

Wear suitable gloves. 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. Chemical protection gloves (nitrile) which are tested according to EN 374.

- 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	sky blue
Particle	not relevant (liquid)
Odor	fruity and zesty

Other safety parameters

pH (value)	6 – 8
Melting point/freezing point	not determined
Initial boiling point and boiling range	193 °C at 20 mmHg
Flash point	77 °C at 101 kPa closed cup
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)



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Vapor pressure	27 Pa at 298 K
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	
- Water solubility	miscible in any proportion
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	225 °C
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none
Temperature class (USA, acc. to NEC 500)	T2D (maximum permissible surface temperature on the equipment: 215°C)

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.



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10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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

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

Acute toxicity

Harmful if swallowed.

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

- Acute toxicity estimate (ATE)

Oral 1,920 mg/kg

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Alcohols, C9-11 ethoxylated	68439-46-3	oral	1,200 mg/kg
Alcohols, C9-11 ethoxylated	68439-46-3	dermal	2,000 mg/kg
benzaldehyde	100-52-7	oral	1,430 mg/kg
benzaldehyde	100-52-7	inhalation: vapor	5 mg/4h
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	oral	1,390 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.



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Reproductive toxicity

Suspected of damaging the unborn child. Suspected of damaging fertility.

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

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Alcohols, C9-11 ethoxylated	68439-46-3	LC50	8.5 mg/l	fathead minnow	96 h
Alcohols, C9-11 ethoxylated	68439-46-3	EC50	5.3 mg/l	daphnia magna	48 h
Alcohols, C9-11 ethoxylated	68439-46-3	ErC50	1 – 10 mg/l	algae	96 h
Alcohols, C11-15- secondary, ethoxylated	84133-50-6	LC50	39 mg/l	fathead minnow	96 h
Alcohols, C11-15- secondary, ethoxylated	84133-50-6	LC50	45 mg/l	daphnia magna	48 h
linalool	78-70-6	LC50	28 mg/l	fish	96 h
linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 h
linalool	78-70-6	ErC50	157 mg/l	algae	96 h
Lemon oil	8008-56-8	LL50	5.7 mg/l	fish	96 h
Lemon oil	8008-56-8	EL50	1.4 mg/l	aquatic invertebrates	24 h
Lime oil	68917-71-5	LL50	>18 mg/l	fish	96 h
Lime oil	68917-71-5	EL50	5 mg/l	aquatic invertebrates	48 h
citral	5392-40-5	LC50	6.8 mg/l	fish	96 h
citral	5392-40-5	EC50	6.8 mg/l	aquatic invertebrates	48 h
citral	5392-40-5	ErC50	104 mg/l	algae	72 h



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Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
di-Citronellol	106-22-9	LC50	15 mg/l	fish	96 h
di-Citronellol	106-22-9	EC50	17 mg/l	aquatic invertebrates	48 h
Geraniol	106-24-1	LC50	22 mg/l	fish	96 h
Geraniol	106-24-1	EC50	11 mg/l	aquatic invertebrates	48 h
Geraniol	106-24-1	ErC50	13 mg/l	algae	72 h
benzaldehyde	100-52-7	LC50	12 mg/l	fish	96 h
Geranyl acetate	105-87-3	LC50	68 mg/l	fish	96 h
Geranyl acetate	105-87-3	EC50	14 mg/l	aquatic invertebrates	48 h
Geranyl acetate	105-87-3	ErC50	3.7 mg/l	algae	72 h
benzyl salicylate	118-58-1	LC50	1 mg/l	fish	96 h
benzyl salicylate	118-58-1	EC50	1.2 mg/l	aquatic invertebrates	48 h
benzyl salicylate	118-58-1	ErC50	1.3 mg/l	algae	72 h
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	LC50	2 mg/l	fish	96 h
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	EC50	11 mg/l	aquatic invertebrates	48 h
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	ErC50	29 mg/l	algae	72 h

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
linalool	78-70-6	LC50	28 mg/l	fish	24 h
linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
Lemon oil	8008-56-8	EL50	1.4 mg/l	aquatic invertebrates	24 h
citral	5392-40-5	EC50	160 mg/l	microorganisms	30 min
di-Citronellol	106-22-9	EC50	>10,000 mg/l	microorganisms	30 min
Geraniol	106-24-1	EC50	70 mg/l	microorganisms	30 min
benzaldehyde	100-52-7	EC50	50 mg/l	aquatic invertebrates	24 h



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Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
benzyl salicylate	118-58-1	EC50	1.2 mg/l	aquatic invertebrates	24 h
benzyl salicylate	118-58-1	LC50	4.3 mg/l	aquatic invertebrates	24 h
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	EC50	104 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

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

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

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



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SECTION 14: Transport information

- | | |
|--|---|
| 14.1 UN number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | none |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | |
| There is no additional information. | |
| 14.7 Transport in bulk according to IMO instruments | |
| The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

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

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

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

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

National regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed (ACTIVE) or exempt from listing

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

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List



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

Name of substance	CAS No	Functionality	Authoritative Lists
Alcohols, C9-11 ethoxylated	68439-46-3	surfactant	
Alcohols, C11-15- secondary, ethoxylated	84133-50-6	surfactant	
linalool	78-70-6	fragrance	EU Fragrance Allergens
Lemon oil	8008-56-8	fragrance	
Lime oil	68917-71-5	fragrance	
2-tert-Butylcyclohexyl acetate	88-41-5	fragrance	
beta-Ionone	14901-07-6	fragrance	
Tricyclodecen-4-yl 8-acetate	5413-60-5	fragrance	
Octanal	124-13-0	fragrance	
citral	5392-40-5	fragrance	
di-Citronellol	106-22-9	fragrance	
Benzyl acetate	140-11-4	fragrance	
Butanoic acid, 1,1-dimethyl-2-phenylethyl ester	10094-34-5	fragrance	
Geraniol	106-24-1	fragrance	EU Fragrance Allergens
Decanal	112-31-2	fragrance	
benzaldehyde	100-52-7	fragrance	
alpha terpineol	98-55-5	fragrance	
isobornyl acetate	125-12-2	fragrance	
citronellyl nitrile	51566-62-2	fragrance	
3,7-dimethyl-2,6-nonadienenitrile	61792-11-8	fragrance	
methyl 2-aminobenzoate	134-20-3	fragrance	
benzyl salicylate	118-58-1	fragrance	
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	fragrance	EU Fragrance Allergens
alpha Terpineol	98-55-5	fragrance	
alpha-Terpineol acetate	80-26-2	fragrance	
gamma Undecalactone	104-67-6	fragrance	
Geranyl acetate	105-87-3	fragrance	
triethanolamine	102-71-6	pH adjusting agent	
Butylated hydroxytoluene	128-37-0	preservative	
2-methyl undecenal	110-41-8	fragrance	



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Name of substance	CAS No	Functionality	Authoritative Lists
Nerol	106-25-2	fragrance	
Allyl hexanoate	123-68-2	fragrance	
Laevo-carvone	6485-40-1	fragrance	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	fragrance	
water	7732-18-5	solvent	
fir needle oil, Siberian	8021-29-2 91697-89-1	fragrance	
4-tert-butylcyclohexyl acetate	32210-23-4	fragrance	

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
benzaldehyde	100-52-7		F2

Legend

F2 Flammable - Second Degree

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
benzaldehyde	100-52-7	F
benzaldehyde	100-52-7	F
benzaldehyde	100-52-7	F

Legend

F Flammability (NFPA®)

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

Proposition 65 List of chemicals

Name of substance	Name acc. to inventory	CAS No	Wt%	Remarks	Type of the toxicity
2,2'-iminodiethanol	diethanolamine	111-42-2	0.0045		cancer

VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 4.6 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 4.6 %



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Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

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

NFPA® 704

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

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

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed



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Country	Inventory	Status
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
VN	NCI	all ingredients are listed
US	TSCA	all ingredients are listed or exempt from listing

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

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

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

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal ARB	California Air Resources Board
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)



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Abbr.	Descriptions of used abbreviations
DNEL	Derived No-Effect Level
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
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
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
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
NFPA®	National Fire Protection Association (United States)
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
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin



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Abbr.	Descriptions of used abbreviations
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

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

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

Classification procedure

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

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

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

Code	Text
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H331	Toxic if inhaled.
H361	Suspected of damaging fertility or the unborn child.

Disclaimer

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