Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Driven Dog Tags Black Out

Version number: 4.0
Replaces version of: 2020-12-07 (3)

Revision: 2020-12-15

SECTION 1: Identification

1.1 Product identifier

Trade name **Driven Dog Tags Black Out**

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

Relevant identified uses Consumer use: Air Freshener

1.3 Details of the supplier of the safety data sheet

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

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)
Website: http://data.energizer.com

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

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

1.4 Emergency telephone number

Emergency information service 1-314-985-1511 Int'l: 1-800-526-4727
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard state-ment
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.7	reproductive toxicity	2	Repr. 2	H361f

For full text of abbreviations: see SECTION 16.

2.2 Label elements

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

- Signal word warning

- Pictograms

GHS07, GHS08

- Hazard statements

H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.

- Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing mist/vapors.
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.
P308+P313	If exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with national regulations.

2.2.1.7 - Hazardous ingredients for labelling: Orange Terpenes, Lilial, Pinacea Oil, Lemon Terpenes, Linalyl acetate, Linalool, Lime (Citrus aurantifolia), ext., Caryophyllene, α-pinene, Dimethyltetrahydro Benzaldehyde, Lavandin Oil, Grapefruit Oil, Coumarin

2.3 Other hazards

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.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

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Description of the mixture

Name of substance	CAS No	Wt%	Classification acc. to GHS	Pictograms
Dihydromyrcenol	18479-58-8	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Flam. Liq. 4 / H227	
Linalyl acetate	115-95-7	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Linalool	78-70-6	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
pentyl salicylate	2050-08-0	1 – < 5	Acute Tox. 4 / H302	
Lilial	80-54-6	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Repr. 2 / H361f Flam. Liq. 4 / H227	
Coumarin	91-64-5	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Skin Sens. 1 / H317	
Orange Terpenes	68647-72-3 8028-48-6	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
α-pinene	80-56-8	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Dimethyltetrahydro Benza-ldehyde	68737-61-1	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317	
Lemon Terpenes	68917-33-9 84929-31-7	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Lavandin Oil	91722-69-9 8022-15-9 93455-97-1	< 1	Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Caryophyllene	87-44-5	< 1	Skin Sens. 1B / H317 Asp. Tox. 1 / H304	

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Name of substance	CAS No	Wt%	Classification acc. to GHS	Pictograms
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Grapefruit Oil	8016-20-4 90045-43-5	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Pinacea Oil	8021-29-2 8021-27-0 90028-76-5 91697-89-1 8021-28-1 85085-34-3 8023-99-2 84012-35-1 8000-26-8 90082-73-8 8002-09-3 90028-76-5 8006-64-2	< 1	Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

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

Following inhalation

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

Following skin contact

Wash with plenty of soap and water.

Following eye contact

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

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

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

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

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

Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

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

Removal of dust deposits.

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/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	α-pinene	80-56-8	TLV®	20							ACGIH® 2019
US	turpentine, oil	8006-64-2	PEL (CA)	100	560						Cal/OSHA PEL
US	turpentine, oil	8006-64-2	REL	100 (10 h)	560 (10 h)						NIOSH REL
US	turpentine, oil	8006-64-2	TLV®	20							ACGIH® 2019

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Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	turpentine, oil	8006-64-2	PEL	100	560						29 CFR 1910.1000
US	polyvinyl chloride	9002-86-2	TLV®		1					r	ACGIH® 2019

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
r	respirable fraction
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

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
pentyl salicylate	2050-08-0	DNEL	3.17 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
pentyl salicylate	2050-08-0	DNEL	0.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	73.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	20.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.75 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	236.2 µg/cm²	human, dermal	worker (industry)	chronic - local effects
Linalyl acetate	115-95-7	DNEL	236.2 µg/cm²	human, dermal	worker (industry)	acute - local effects
Linalool	78-70-6	DNEL	2.8 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

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	16.5 mg/m³	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
Orange Terpenes	68647-72-3 8028-48-6	DNEL	31.1 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Orange Terpenes	68647-72-3 8028-48-6	DNEL	8.89 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Orange Terpenes	68647-72-3 8028-48-6	DNEL	185.8 µg/cm²	human, dermal	worker (industry)	acute - local effects
Lemon Terpenes	68917-33-9 84929-31-7	DNEL	23.3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Lemon Terpenes	68917-33-9 84929-31-7	DNEL	6.67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	0.44 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	1.79 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	410 µg/cm²	human, dermal	worker (industry)	chronic - local effects
Lilial	80-54-6	DNEL	410 µg/cm²	human, dermal	worker (industry)	acute - local effects
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	DNEL	18.7 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	DNEL	5.34 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	DNEL	185.8 µg/cm²	human, dermal	worker (industry)	acute - local effects
α-pinene	80-56-8	DNEL	3.8 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

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
α-pinene	80-56-8	DNEL	0.542 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lavandin Oil	91722-69-9 8022-15-9 93455-97-1	DNEL	0.877 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Lavandin Oil	91722-69-9 8022-15-9 93455-97-1	DNEL	0.249 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Grapefruit Oil	8016-20-4 90045-43-5	DNEL	31.1 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Grapefruit Oil	8016-20-4 90045-43-5	DNEL	8.89 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	6.78 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	0.79 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
pentyl salicylate	2050-08-0	PNEC	0.77 µg/l	aquatic organisms	freshwater	short-term (single instance)
pentyl salicylate	2050-08-0	PNEC	0.077 µg/l	aquatic organisms	marine water	short-term (single instance)
pentyl salicylate	2050-08-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
pentyl salicylate	2050-08-0	PNEC	0.389 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
pentyl salicylate	2050-08-0	PNEC	0.039 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
pentyl salicylate	2050-08-0	PNEC	1.786 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	111 mg/kg	aquatic organisms	water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.278 mg/l	aquatic organisms	water	intermittent release

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	27.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	2.78 µg/l	aquatic organisms	marine water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.594 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.059 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.11 mg/l	aquatic organisms	water	intermittent release
Linalyl acetate	115-95-7	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.609 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.061 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.115 mg/kg	terrestrial organisms	soil	short-term (single instance)
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)

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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)
Orange Terpenes	68647-72-3 8028-48-6	PNEC	5.77 $^{µg}/_{l}$	aquatic organisms	water	intermittent release
Orange Terpenes	68647-72-3 8028-48-6	PNEC	5.4 $^{µg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
Orange Terpenes	68647-72-3 8028-48-6	PNEC	0.54 $^{µg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
Orange Terpenes	68647-72-3 8028-48-6	PNEC	2.1 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Orange Terpenes	68647-72-3 8028-48-6	PNEC	1.3 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Orange Terpenes	68647-72-3 8028-48-6	PNEC	0.13 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
Orange Terpenes	68647-72-3 8028-48-6	PNEC	0.261 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
Lemon Terpenes	68917-33-9 84929-31-7	PNEC	5.4 $^{µg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
Lemon Terpenes	68917-33-9 84929-31-7	PNEC	0.54 $^{µg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
Lemon Terpenes	68917-33-9 84929-31-7	PNEC	2.1 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lemon Terpenes	68917-33-9 84929-31-7	PNEC	1.3 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Lemon Terpenes	68917-33-9 84929-31-7	PNEC	0.13 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
Lemon Terpenes	68917-33-9 84929-31-7	PNEC	0.29 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
Lilial	80-54-6	PNEC	0.024 $^{mg}/_{l}$	aquatic organisms	water	intermittent release
Lilial	80-54-6	PNEC	0.004 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Lilial	80-54-6	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Lilial	80-54-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lilial	80-54-6	PNEC	0.528 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Lilial	80-54-6	PNEC	0.053 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Lilial	80-54-6	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	PNEC	5.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	PNEC	0.54 µg/l	aquatic organisms	marine water	short-term (single instance)
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	PNEC	2.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	PNEC	1.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	PNEC	0.13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
α-pinene	80-56-8	PNEC	1.35 mg/kg	aquatic organisms	water	short-term (single instance)
α-pinene	80-56-8	PNEC	0.606 µg/l	aquatic organisms	freshwater	short-term (single instance)
α-pinene	80-56-8	PNEC	0.061 µg/l	aquatic organisms	marine water	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
α-pinene	80-56-8	PNEC	0.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
α-pinene	80-56-8	PNEC	157 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
α-pinene	80-56-8	PNEC	15.7 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
α-pinene	80-56-8	PNEC	31.7 µg/kg	terrestrial organisms	soil	short-term (single instance)
Grapefruit Oil	8016-20-4 90045-43-5	PNEC	5.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Grapefruit Oil	8016-20-4 90045-43-5	PNEC	0.54 µg/l	aquatic organisms	marine water	short-term (single instance)
Grapefruit Oil	8016-20-4 90045-43-5	PNEC	2.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Grapefruit Oil	8016-20-4 90045-43-5	PNEC	1.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Grapefruit Oil	8016-20-4 90045-43-5	PNEC	0.13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Grapefruit Oil	8016-20-4 90045-43-5	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
Coumarin	91-64-5	PNEC	0.056 mg/l	aquatic organisms	water	intermittent release
Coumarin	91-64-5	PNEC	19 µg/l	aquatic organisms	freshwater	short-term (single instance)
Coumarin	91-64-5	PNEC	1.9 µg/l	aquatic organisms	marine water	short-term (single instance)
Coumarin	91-64-5	PNEC	6.4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Coumarin	91-64-5	PNEC	0.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.018 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

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

- Type of material

PVA: polyvinyl alcohol, Nitrile

- Material thickness

>0.5 mm

- Breakthrough times of the glove material

>120 minutes (permeation: level 4)

- Other protection measures

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	solid
Color	light blue
Odor	characteristic

Other safety parameters

pH (value)	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	193 °C at 100.9 kPa
Flash point	93.33 °C
Evaporation rate	Not determined
Flammability (solid, gas)	this material is combustible, but will not ignite readily
Explosion limits of dust clouds	not determined
Vapor pressure	<1 hPa at 20 °C
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available

Auto-ignition temperature	not determined
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidizing properties	none

9.2	**Other information**	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

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
pentyl salicylate	2050-08-0	oral	2,000 $^{mg}/_{kg}$
Lilial	80-54-6	oral	1,390 $^{mg}/_{kg}$
α-pinene	80-56-8	oral	500 $^{mg}/_{kg}$
Coumarin	91-64-5	oral	293 $^{mg}/_{kg}$

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Coumarin	91-64-5	dermal	293 $^{mg}/_{kg}$

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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
Coumarin	91-64-5	3	

Legend

3	Not classifiable as to carcinogenicity in humans

Reproductive toxicity

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.

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SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
pentyl salicylate	2050-08-0	LC50	1.34 $^{mg}/_{l}$	fish	96 h
pentyl salicylate	2050-08-0	EC50	1.4 $^{mg}/_{l}$	aquatic invertebrates	24 h
pentyl salicylate	2050-08-0	ErC50	0.77 $^{mg}/_{l}$	algae	72 h
pentyl salicylate	2050-08-0	NOEC	0.2 $^{mg}/_{l}$	algae	72 h
Dihydromyrcenol	18479-58-8	LC50	27.8 $^{mg}/_{l}$	fish	96 h
Dihydromyrcenol	18479-58-8	EC50	38 $^{mg}/_{l}$	aquatic invertebrates	48 h
Dihydromyrcenol	18479-58-8	ErC50	80 $^{mg}/_{l}$	algae	72 h
Dihydromyrcenol	18479-58-8	NOEC	<3.5 $^{mg}/_{l}$	fish	96 h
Dihydromyrcenol	18479-58-8	LOEC	50 $^{mg}/_{l}$	algae	72 h
Linalyl acetate	115-95-7	ErC50	62 $^{mg}/_{l}$	algae	72 h
Linalyl acetate	115-95-7	LC50	11 $^{mg}/_{l}$	fish	96 h
Linalyl acetate	115-95-7	EC50	59 $^{mg}/_{l}$	aquatic invertebrates	48 h
Linalyl acetate	115-95-7	NOEC	25 $^{mg}/_{l}$	aquatic invertebrates	48 h
Linalool	78-70-6	LC50	27.8 $^{mg}/_{l}$	fish	96 h
Linalool	78-70-6	EC50	59 $^{mg}/_{l}$	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156.7 $^{mg}/_{l}$	algae	96 h
Linalool	78-70-6	NOEC	<3.5 $^{mg}/_{l}$	fish	96 h
Linalool	78-70-6	growth (EbCx) 10%	38.4 $^{mg}/_{l}$	algae	96 h
Linalool	78-70-6	growth rate (ErCx) 10%	54.3 $^{mg}/_{l}$	algae	96 h
Orange Terpenes	68647-72-3 8028-48-6	LL50	5.65 $^{mg}/_{l}$	fish	96 h
Orange Terpenes	68647-72-3 8028-48-6	EL50	1.4 $^{mg}/_{l}$	aquatic invertebrates	24 h

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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Lemon Terpenes	68917-33-9 84929-31-7	LL50	5.65 $^{mg}/_{l}$	fish	96 h
Lemon Terpenes	68917-33-9 84929-31-7	EL50	1.4 $^{mg}/_{l}$	aquatic invertebrates	24 h
Lilial	80-54-6	LC50	2.04 $^{mg}/_{l}$	fish	96 h
Lilial	80-54-6	EC50	10.7 $^{mg}/_{l}$	aquatic invertebrates	48 h
Lilial	80-54-6	ErC50	29.16 $^{mg}/_{l}$	algae	72 h
Lilial	80-54-6	NOEC	1.28 $^{mg}/_{l}$	fish	96 h
Lilial	80-54-6	growth rate (ErCx) 10%	1.696 $^{mg}/_{l}$	algae	72 h
Pinacea Oil	8021-29-2 8021-27-0 90028-76-5 91697-89-1 8021-28-1 85085-34-3 8023-99-2 84012-35-1 8000-26-8 90082-73-8 8002-09-3 90028-76-5 8006-64-2	LL50	8.2 $^{mg}/_{l}$	fish	96 h
Pinacea Oil	8021-29-2 8021-27-0 90028-76-5 91697-89-1 8021-28-1 85085-34-3 8023-99-2 84012-35-1 8000-26-8 90082-73-8 8002-09-3 90028-76-5 8006-64-2	EL50	6.4 $^{mg}/_{l}$	aquatic invertebrates	48 h
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	LL50	>18 $^{mg}/_{l}$	fish	96 h
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	EL50	5 $^{mg}/_{l}$	aquatic invertebrates	48 h

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Caryophyllene	87-44-5	EC50	>0.17 mg/l	aquatic invertebrates	48 h
Caryophyllene	87-44-5	ErC50	>0.033 mg/l	algae	72 h
Caryophyllene	87-44-5	NOEC	≥0.033 mg/l	algae	72 h
Caryophyllene	87-44-5	growth rate (ErCx) 10%	>0.033 mg/l	algae	72 h
Caryophyllene	87-44-5	growth (EbCx) 10%	>0.033 mg/l	algae	72 h
α-pinene	80-56-8	LC50	0.303 mg/l	fish	96 h
α-pinene	80-56-8	EC50	0.475 mg/l	aquatic invertebrates	48 h
α-pinene	80-56-8	NOEC	0.131 mg/l	algae	48 h
Lavandin Oil	91722-69-9 8022-15-9 93455-97-1	LL50	17 mg/l	fish	96 h
Lavandin Oil	91722-69-9 8022-15-9 93455-97-1	EL50	34.56 mg/l	aquatic invertebrates	24 h
Grapefruit Oil	8016-20-4 90045-43-5	LL50	5.65 mg/l	fish	96 h
Grapefruit Oil	8016-20-4 90045-43-5	EL50	1.4 mg/l	aquatic invertebrates	24 h
Coumarin	91-64-5	LC50	2.94 mg/l	fish	96 h
Coumarin	91-64-5	EC50	8.012 mg/l	aquatic invertebrates	48 h
Coumarin	91-64-5	NOEC	0.431 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Dihydromyrcenol	18479-58-8	EC50	17 mg/l	aquatic invertebrates	21 d
Dihydromyrcenol	18479-58-8	NOEC	9.5 mg/l	aquatic invertebrates	21 d
Linalyl acetate	115-95-7	LC50	11.14 mg/l	fish	20 h
Linalyl acetate	115-95-7	NOEC	>25.7 mg/l	microorganisms	28 d

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
Linalool	78-70-6	growth (EbCx) 10%	>100 mg/l	microorganisms	3 h
Orange Terpenes	68647-72-3 8028-48-6	EL50	1.4 mg/l	aquatic invertebrates	24 h
Lilial	80-54-6	NOEC	>200 µg/l	fish	21 d
Lilial	80-54-6	growth (EbCx) 10%	>100 mg/l	microorganisms	180 min
Lime (Citrus aurantifolia), ext.	8008-26-2 68916-84-7 68917-71-5 90063-52-8	EL50	15 mg/l	aquatic invertebrates	24 h
α-pinene	80-56-8	NOEC	2 mg/l	microorganisms	28 d
Lavandin Oil	91722-69-9 8022-15-9 93455-97-1	EC50	1,230 mg/l	microorganisms	3 h
Lavandin Oil	91722-69-9 8022-15-9 93455-97-1	NOEC	488 mg/l	microorganisms	3 h
Lavandin Oil	91722-69-9 8022-15-9 93455-97-1	LOEC	781 mg/l	microorganisms	3 h
Coumarin	91-64-5	NOEC	0.191 mg/l	fish	30 d

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

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

Waste treatment of containers/packages

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

Remarks

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

SECTION 14: Transport information

14.1	**UN number**	not subject to transport regulations
14.2	**UN proper shipping name**	not assigned
14.3	**Transport hazard class(es)**	not assigned
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 Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

DOT

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

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

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

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed

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	Name acc. to inventory	CAS No	Functional-ity	Authoritative Lists
Pentyl salicylate		2050-08-0	fragrance	
Linalool	Linalool	78-70-6		EU Fragrance Allergens
Lilial	2-(4-tert-Butylbenzyl) propional-dehyde	80-54-6		EU Fragrance Allergens
Isobornyl acetate		125-12-2	fragrance	
Benzyl benzoate	Benzyl benzoate	120-51-4		EU Fragrance Allergens
Coumarin	Coumarin	91-64-5		EU Fragrance Allergens
Artemisia dracunculus oil		8016-88-4	fragrance	
β-Pinene		127-91-3 18172-67-3	fragrance	
Caryophyllene		87-44-5	fragrance	

- Toxic or Hazardous Substance List (MA-TURA)

none of the ingredients are listed

- Hazardous Substance List (NJ-RTK)

Name of substance	Name acc. to inventory	CAS No	Remarks	Classifications
Benzyl acetate	benzyl acetate (acetic acid, phenylmethyl ester)	140-11-4		F2
Polyvinyl Chloride	PVC (polyvinyl chloride)	9002-86-2		
α-pinene	alpha-PINENE (BICYCLO[3.1.1]HEPT-2-ENE, 2,6,6-TRI-METHYL-)	80-56-8		F3
Pinacea Oil	turpentine, oil	8006-64-2		F3

Legend
F2 Flammable - Second Degree
F3 Flammable - Third Degree

- Hazardous Substance List (RI-RTK)

Name of substance	Name acc. to inventory	CAS No	References
Pinacea Oil	Turpentine	8006-64-2	T, F

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

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

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

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

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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	all ingredients are listed
CA	NDSL	not 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
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	all ingredients are listed

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

Legend

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 (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

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

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

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
3.2		Description of the mixture: change in the listing (table)	yes
12.7	Other adverse effects	Other adverse effects: Data are not available.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
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
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
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
LOEC	Lowest Observed Effect Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit

Abbr.	Descriptions of used abbreviations
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Repr.	Reproductive toxicity
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

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

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

Classification procedure

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

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

Code	Text
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.

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Disclaimer

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