



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Refresh Mini Diffuser - Refined Nights 1-3-19

Version number: 1.0

Date of compilation: 2020-04-01

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name Refresh Mini Diffuser - Refined Nights 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>

Energizer Deutschland GMBH  
Mettmanner Str. 25  
Erkrath 40699 Germany

Telephone: + 49 211 5403 1610  
e-mail: ConsumerServiceEU@energizer.com

#### 1.4 Emergency telephone number

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

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.1I	acute toxicity (inhal.)	4	Acute Tox. 4	H332
A.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.4S	skin sensitization	1	Skin Sens. 1	H317

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

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

- Signal word warning

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### - Pictograms

GHS07



### - Hazard statements

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.

### - Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P103 Read label before use.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear eye protection/face protection.  
P302+P352 If on skin: Wash with plenty of water.  
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a poison center/doctor if you feel unwell.  
P321 Specific treatment (see on this label).  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### - Hazardous ingredients for labelling

Coumarin, DORISYL, 3,4,5,6,6-pentamethylhept-3-en-2-one, delta-Damascone, Hexyl cinnamaldehyde, benzyl salicylate, Linalool, dihydro pentamethylindanone, Aldehyde C-16, Pin-2(3)-ene, Pentamethyl Octahydroindenodioxane, dipentene, Cinnamal

## 2.3 Other hazards

### Hazards not otherwise classified

May be harmful if swallowed (GHS category 5: acutely toxic - oral).  
May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).  
Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

### Results of PBT and vPvB assessment

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

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures




Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
DORISYL	CAS No 32210-23-4	10 - < 25	Skin Sens. 1B / H317	
Hexyl cinnamaldehyde	CAS No 101-86-0 165184-98-5	10 - < 25	Acute Tox. 4 / H332 Skin Sens. 1B / H317	
3,4,5,6,6-pentamethylhept-3-en-2-one	CAS No 86115-11-9	10 - < 25	Skin Sens. 1B / H317	
Coumarin	CAS No 91-64-5	10 - < 25	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Skin Sens. 1 / 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	
4-tert-butylcyclohexanol	CAS No 98-52-2	1 - < 5	Eye Irrit. 2 / H319	
benzyl salicylate	CAS No 118-58-1	1 - < 5	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
dihydro pentamethyl-indanone	CAS No 33704-61-9	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
delta-Damascone	CAS No 57378-68-4	1 - < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
Aldehyde C-16	CAS No 77-83-8	1 - < 5	Skin Sens. 1B / H317	
7,7,8,9,9-pentamethyl-5H,6H,6aH,7H,8H,9H,9aH-cyclopenta[h]quinazoline	CAS No 1392325-86-8	1 - < 5	Acute Tox. 3 / H301	
Pin-2(3)-ene	CAS No 80-56-8	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	  

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Pentamethyl Octahydroindenedioxane	CAS No 365411-50-3	< 1	Skin Sens. 1B / H317	
dipentene	CAS No 138-86-3	< 1	Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Flam. Liq. 3 / H226	
Cinnamal	CAS No 104-55-2	< 1	Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317	

For full text of abbreviations: see SECTION 16.

**SECTION 4: First-aid measures**

**4.1 Description of first- aid measures**

General notes

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

Following inhalation

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

Following skin contact

Wash with plenty of soap and water.

Following eye contact

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

Following ingestion

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

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms and effects are not known to date.

**4.3 Indication of any immediate medical attention and special treatment needed**

none



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### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

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

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

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

#### 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

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

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 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.

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

- Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.

- 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 <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	2,6-di-tert-butyl-p-cresol	128-37-0	PEL (CA)		10						Cal/ OSHA PEL
US	2,6-di-tert-butyl-p-cresol	128-37-0	REL		10 (10 h)						NIOSH REL
US	butylated hydroxytoluene	128-37-0	TLV®		2					iv	AC-GIH® 2019
US	α-pinene	80-56-8	TLV®	20							AC-GIH® 2019

**Notation**

Ceiling-C

iv

STEL

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)



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**Notation**

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
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	0.078 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	6.28 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	18.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	525 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	525 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local 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 <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	2.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16.5 mg/m <sup>3</sup>	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
4-tert-butylcyclohexanol	98-52-2	DNEL	4.93 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
4-tert-butylcyclohexanol	98-52-2	DNEL	0.875 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
benzyl salicylate	118-58-1	DNEL	3.17 mg/m <sup>3</sup>	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
Aldehyde C-16	77-83-8	DNEL	0.7 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C-16	77-83-8	DNEL	2.45 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects



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### Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Pin-2(3)-ene	80-56-8	DNEL	3.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Pin-2(3)-ene	80-56-8	DNEL	0.542 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Pentamethyl Octahydroindenodioxane	365411-50-3	DNEL	7.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Pentamethyl Octahydroindenodioxane	365411-50-3	DNEL	2.1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Pentamethyl Octahydroindenodioxane	365411-50-3	DNEL	2,675 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Cinnamal	104-55-2	DNEL	2.513 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Cinnamal	104-55-2	DNEL	2.204 mg/m <sup>3</sup>	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
DORISYL	32210-23-4	PNEC	5.3 µg/l	aquatic organisms	freshwater	short-term (single instance)
DORISYL	32210-23-4	PNEC	0.53 µg/l	aquatic organisms	marine water	short-term (single instance)
DORISYL	32210-23-4	PNEC	12.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
DORISYL	32210-23-4	PNEC	2.01 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
DORISYL	32210-23-4	PNEC	0.21 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
DORISYL	32210-23-4	PNEC	66.67 mg/kg	aquatic organisms	water	short-term (single instance)
DORISYL	32210-23-4	PNEC	0.42 mg/kg	terrestrial organisms	soil	short-term (single instance)
DORISYL	32210-23-4	PNEC	53 µg/l	aquatic organisms	water	intermittent release
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)





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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	3.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.064 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.398 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
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)



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
4-tert-butylcyclohexanol	98-52-2	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)
4-tert-butylcyclohexanol	98-52-2	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
4-tert-butylcyclohexanol	98-52-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4-tert-butylcyclohexanol	98-52-2	PNEC	0.138 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
4-tert-butylcyclohexanol	98-52-2	PNEC	0.014 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
4-tert-butylcyclohexanol	98-52-2	PNEC	0.024 mg/kg	terrestrial organisms	soil	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.0103 mg/l	aquatic organisms	water	intermittent release
benzyl salicylate	118-58-1	PNEC	80 mg/kg	aquatic organisms	water	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.583 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	0.058 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzyl salicylate	118-58-1	PNEC	1.41 mg/kg	terrestrial organisms	soil	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.0084 mg/l	aquatic organisms	freshwater	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	8.4 µg/l	aquatic organisms	marine water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.214 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.0214 mg/kg	aquatic organisms	marine sediment	short-term (single instance)



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Aldehyde C-16	77-83-8	PNEC	23.3 mg/kg	aquatic organisms	water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.0378 mg/kg	terrestrial organisms	soil	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.084 mg/l	aquatic organisms	water	intermittent release
Pin-2(3)-ene	80-56-8	PNEC	1.35 mg/kg	aquatic organisms	water	short-term (single instance)
Pin-2(3)-ene	80-56-8	PNEC	0.606 µg/l	aquatic organisms	freshwater	short-term (single instance)
Pin-2(3)-ene	80-56-8	PNEC	0.061 µg/l	aquatic organisms	marine water	short-term (single instance)
Pin-2(3)-ene	80-56-8	PNEC	0.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Pin-2(3)-ene	80-56-8	PNEC	157 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Pin-2(3)-ene	80-56-8	PNEC	15.7 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Pin-2(3)-ene	80-56-8	PNEC	31.7 µg/kg	terrestrial organisms	soil	short-term (single instance)
Pentamethyl Octahydroindenodioxane	365411-50-3	PNEC	0.038 mg/l	aquatic organisms	freshwater	short-term (single instance)
Pentamethyl Octahydroindenodioxane	365411-50-3	PNEC	0.004 mg/l	aquatic organisms	marine water	short-term (single instance)
Pentamethyl Octahydroindenodioxane	365411-50-3	PNEC	32 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Pentamethyl Octahydroindenodioxane	365411-50-3	PNEC	25.8 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Pentamethyl Octahydroindenodioxane	365411-50-3	PNEC	2.58 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Pentamethyl Octahydroindenodioxane	365411-50-3	PNEC	5.14 mg/kg	terrestrial organisms	soil	short-term (single instance)
Cinnamal	104-55-2	PNEC	1.004 mg/l	aquatic organisms	freshwater	short-term (single instance)
Cinnamal	104-55-2	PNEC	0.1004 mg/l	aquatic organisms	marine water	short-term (single instance)
Cinnamal	104-55-2	PNEC	13.12 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)



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Cinnamal	104-55-2	PNEC	159.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Cinnamal	104-55-2	PNEC	159.2 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Cinnamal	104-55-2	PNEC	0.0003333 mg/kg	aquatic organisms	water	short-term (single instance)
Cinnamal	104-55-2	PNEC	56.08 mg/kg	terrestrial organisms	soil	short-term (single instance)
Cinnamal	104-55-2	PNEC	1.004 mg/l	aquatic organisms	water	intermittent 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.



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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### Appearance

Physical state	liquid
Color	various
Odor	characteristic

##### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	196.3 °C at 99.2 kPa
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
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)	not determined

##### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
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Auto-ignition temperature	235.5 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

### 9.2 Other information

Solvent content	47.45 %
Solid content	16.75 %
Temperature class (USA, acc. to NEC 500)	T2C (maximum permissible surface temperature on the equipment: 230°C)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

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



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

#### Acute toxicity

Harmful if inhaled.

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

#### - Acute toxicity estimate (ATE)

Inhalation: dust/mist 4.046 mg/l/4h

#### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Hexyl cinnamaldehyde	101-86-0 165184-98-5	inhalation: vapor	11 mg/l/4h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	inhalation: dust/mist	2.12 mg/l/4h
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
delta-Damascone	57378-68-4	oral	500 mg/kg
7,7,8,9,9-pentamethyl-5H,6H,6aH,7H,8H,9H,9aH-cyclopenta[h]quinazoline	1392325-86-8	oral	300 mg/kg
dipentene	138-86-3	dermal	2,000 mg/kg
Cinnamal	104-55-2	dermal	1,260 mg/kg

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.



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### 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	

Legend

3 Not classifiable as to carcinogenicity in humans

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Very 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
DORISYL	32210-23-4	LC50	8.6 mg/l	fish	96 h
DORISYL	32210-23-4	EC50	5.3 mg/l	aquatic invertebrates	48 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	LC50	1.7 mg/l	fish	96 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	EC50	<0.59 mg/l	aquatic invertebrates	48 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	ErC50	>0.065 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
Linalool	78-70-6	LC50	27.8 mg/l	fish	96 h
Linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 h





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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Linalool	78-70-6	ErC50	156.7 mg/l	algae	96 h
4-tert-butylcyclohexanol	98-52-2	LC50	17 mg/l	fish	48 h
4-tert-butylcyclohexanol	98-52-2	EC50	46 mg/l	aquatic invertebrates	24 h
4-tert-butylcyclohexanol	98-52-2	ErC50	45 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
Aldehyde C-16	77-83-8	LC50	4.2 mg/l	fish	96 h
Aldehyde C-16	77-83-8	EC50	52 mg/l	aquatic invertebrates	48 h
Aldehyde C-16	77-83-8	ErC50	36 mg/l	algae	72 h
7,7,8,9,9-pentamethyl-5H,6H,6aH,7H,8H,9H,9aH-cyclopenta[h]quinazoline	1392325-86-8	LC50	0.64 mg/l	fish	96 h
7,7,8,9,9-pentamethyl-5H,6H,6aH,7H,8H,9H,9aH-cyclopenta[h]quinazoline	1392325-86-8	EC50	1 mg/l	aquatic invertebrates	48 h
7,7,8,9,9-pentamethyl-5H,6H,6aH,7H,8H,9H,9aH-cyclopenta[h]quinazoline	1392325-86-8	ErC50	3.4 mg/l	algae	72 h
Pin-2(3)-ene	80-56-8	LC50	0.303 mg/l	fish	96 h
Pin-2(3)-ene	80-56-8	EC50	0.475 mg/l	aquatic invertebrates	48 h
Pentamethyl Octahydroindenodioxane	365411-50-3	LC50	5.7 mg/l	fish	96 h
Pentamethyl Octahydroindenodioxane	365411-50-3	EC50	3.8 mg/l	aquatic invertebrates	48 h
Pentamethyl Octahydroindenodioxane	365411-50-3	ErC50	14.4 mg/l	algae	72 h



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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hexyl cinnamaldehyde	101-86-0 165184-98-5	EC50	>157 µg/l	aquatic invertebrates	21 d
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
4-tert-butylcyclohexanol	98-52-2	EC50	255 mg/l	microorganisms	3 h
benzyl salicylate	118-58-1	EC50	1.21 mg/l	aquatic invertebrates	24 h
benzyl salicylate	118-58-1	LC50	4.34 mg/l	aquatic invertebrates	24 h
Aldehyde C-16	77-83-8	EC50	95 mg/l	aquatic invertebrates	24 h
7,7,8,9,9-pentamethyl-5H,6H,6aH,7H,8H,9H,9aH-cyclopenta[h]quinazoline	1392325-86-8	EC50	>56 mg/l	microorganisms	3 h
Pentamethyl Octahydroindenodioxane	365411-50-3	EC50	>3,200 mg/l	microorganisms	30 min
Cinnamal	104-55-2	LC50	100.4 mg/l	fish	96 h
Cinnamal	104-55-2	EC50	119.6 mg/l	aquatic invertebrates	48 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

Data are not available.

### 12.6 Other adverse effects

Endocrine disrupting potential

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



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

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

Waste treatment of containers/packages

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

#### Remarks

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

### SECTION 14: Transport information

<b>14.1 UN number</b>	3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	Hexyl cinnamaldehyde, Coumarin
<b>14.3 Transport hazard class(es)</b>	
Class	9 (environmentally hazardous)
<b>14.4 Packing group</b>	III (substance presenting low danger)
<b>14.5 Environmental hazards</b>	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	Hexyl cinnamaldehyde, Coumarin
<b>14.6 Special precautions for user</b>	
There is no additional information.	
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
The cargo is not intended to be carried in bulk.	

#### Information for each of the UN Model Regulations

Not regulated when carried in single or combination packaging containing a net quantity of 5L or less or 5 kg or less per the following:

DOT: 171.4(2)

ADR: SP 375

IMDG: 2.10.2.7

IATA: special provision A197



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### 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: Hexyl cinnamaldehyde, Coumarin), 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.
- Particulars in the shipper's declaration	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: Hexyl cinnamaldehyde, Coumarin), 9, III
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



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### International Civil Aviation Organization (ICAO-IATA/DGR)

UN 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: Hexyl cinnamaldehyde, Coumarin), 9, III
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



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

Name of substance	CAS No	Functionality	Authoritative Lists
Hexyl cinnamaldehyde	101-86-0	fragrance	EU Fragrance Allergens
Coumarin	91-64-5	fragrance	EU Fragrance Allergens
3,4,5,6,6-pentamethylhept-3-en-2-one	86115-11-9	fragrance	
DORISYL	32210-23-4	fragrance	
Linalool	78-70-6	fragrance	EU Fragrance Allergens
4-tert-butylcyclohexanol	98-52-2	fragrance	
Octahydro-2H-1-benzopyran-2-one	4430-31-3	fragrance	
BHT	128-37-0	preservative	
benzyl salicylate	118-58-1	fragrance	EU Fragrance Allergens
dihydro pentamethylindanone	33704-61-9	fragrance	
beta-ionone	79-77-6	fragrance	
Aldehyde C-16	77-83-8	fragrance	
1,3,4,6,7,8a-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalen-8(5H)-one	23787-90-8	fragrance	
7,7,8,9,9-pentamethyl-5H,6H,6aH,7H,8H,9H,9aH-cyclopenta[h]quinazoline	1392325-86-8	fragrance	
delta-Damascone	57378-68-4	fragrance	
dipentene	5989-27-5	fragrance	EU Fragrance Allergens
Pentamethyl Octahydroindenodioxane	365411-50-3	fragrance	
Pin-2(3)-ene	80-56-8	fragrance	
Caryophyllene	87-44-5	fragrance	
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	23696-85-7 23726-93-4	fragrance	
Cinnamal	104-55-2	fragrance	EU Fragrance Allergens

### - Toxic or Hazardous Substance List (MA-TURA)

none of the ingredients are listed

### - Hazardous Substances List (MN-ERTK)



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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		
Pin-2(3)-ene	80-56-8		F3

### Legend

F2 Flammable - Second Degree  
F3 Flammable - Third 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.



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Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

### NFPA® 704

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

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### 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	not all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	not all ingredients are listed





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Country	Inventory	Status
US	TSCA	not 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
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®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a>
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances



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Abbr.	Descriptions of used abbreviations
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
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



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### Key literature references and sources for data

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

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

### Classification procedure

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

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

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

Code	Text
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful 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.