



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## AXE Fibreboard Can Black

Version number: 2.0  
Replaces version of: 2022-06-14 (1)

Revision: 2022-11-21

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **AXE Fibreboard Can Black**

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

Relevant identified uses Consumer uses: 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)  
e-mail: Autocare.regulatory@energizer.com  
Website: <http://data.energizer.com>

#### 1.4 Emergency telephone number

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

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.45	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

- Pictograms

GHS07



- Hazard statements

H317 May cause an allergic skin reaction.

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### - Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing mist/vapors.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### - Hazardous ingredients for labelling

2,2,6-trimethyl- $\alpha$ -propylcyclohexanepropanol, 3-(p-methoxyphenyl)-2-methylpropionaldehyde, Patchouli ethanone

## 2.3 Other hazards

Hazards not otherwise classified

Contains 3,7-dimethylnona-1,6-dien-3-ol, (1R,3S,4S,5S)-4,7,7-trimethylspiro[bicyclo[3.1.1]heptane-3,1'-cyclohexan]-2'-en-4'-one, (5E)-3-Methylcyclopentadec-5-en-1-one, 2,2,6-trimethyl- $\alpha$ -propylcyclohexanepropanol, Patchouli ethanone, (ethoxy-methoxy)cyclododecane, 3-(p-methoxyphenyl)-2-methylpropionaldehyde, Cineole, Methyl atrarate, dihydro pentamethylindanone, Methoxy dicyclopentadiene carboxaldehyde. May produce an allergic reaction.

Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic).





## 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
Dihydromyrcenol	CAS No 18479-58-8	1 – <5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Flam. Liq. 4 / H227	
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	CAS No 319002-92-1	1 – <5	Flam. Liq. 4 / H227	
(5E)-3-Methylcyclopentadec-5-en-1-one	CAS No 82356-51-2 63314-79-4	< 1	Skin Sens. 1B / H317	
(1R,3S,4S,5S)-4,7,7-trimethylspiro[bicyclo[3.1.1]heptane-3,1'-cyclohexan]-2'-en-4'-one	CAS No 133636-82-5	< 1	Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1B / H317	 

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Patchouli ethanone	CAS No 54464-57-2	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
(ethoxymethoxy)cyclodecane	CAS No 58567-11-6	< 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	
Methoxy dicyclopentadiene carboxaldehyde	CAS No 86803-90-9	< 1	Skin Sens. 1B / H317	
3-(p-methoxyphenyl)-2-methylpropionaldehyde	CAS No 5462-06-6	< 1	Eye Irrit. 2 / H319 Skin Sens. 1 / H317	
3,7-dimethylnona-1,6-dien-3-ol	CAS No 10339-55-6	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Methyl atrarate	CAS No 4707-47-5	< 1	Skin Sens. 1B / H317	
dihydro pentamethylindanone	CAS No 33704-61-9	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
2,2,6-trimethyl-α-propylcyclohexanepropanol	CAS No 70788-30-6	< 1	Skin Sens. 1 / H317	
Cineole	CAS No 470-82-6	< 1	Skin Sens. 1B / H317 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.



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### Following eye contact

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

### Following ingestion

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

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water jet

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

Hazardous combustion products

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.

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

Advice on how to contain a spill

Covering of drains



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### Advice on how to clean up a spill

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

### Appropriate containment techniques

Use of adsorbent materials.

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

## 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

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

Use local and general ventilation. Use only in well-ventilated areas.

#### Advice on general occupational hygiene

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

### 7.2 Conditions for safe storage, including any incompatibilities

### 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	cellulose	9004-34-6	TLV®		10						AC-GIH® 2022
US	cellulose	9004-34-6	REL		10 (10 h)					i	NIOSH REL



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### 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	cellulose	9004-34-6	PEL		15					i, dust	29 CFR 1910.1000
US	cellulose	9004-34-6	REL		5 (10 h)					r	NIOSH REL
US	cellulose	9004-34-6	PEL		5					r, dust	29 CFR 1910.1000

#### Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
dust	as dust
i	inhalable fraction
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	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Dihydromyrcenol	18479-58-8	DNEL	24.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	DNEL	8.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	DNEL	3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	DNEL	18 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	DNEL	2.7 mg/kg bw/day	human, dermal	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
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	DNEL	5.5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
(ethoxymethoxy)cyclododecane	58567-11-6	DNEL	23.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
(ethoxymethoxy)cyclododecane	58567-11-6	DNEL	3.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3-(p-methoxyphenyl)-2-methylpropionaldehyde	5462-06-6	DNEL	6.35 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
3-(p-methoxyphenyl)-2-methylpropionaldehyde	5462-06-6	DNEL	1.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3-(p-methoxyphenyl)-2-methylpropionaldehyde	5462-06-6	DNEL	3,992 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Cineole	470-82-6	DNEL	7.05 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Cineole	470-82-6	DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Methyl atrarate	4707-47-5	DNEL	2,500 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
dihydro penta-methylindanone	33704-61-9	DNEL	1.47 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
dihydro penta-methylindanone	33704-61-9	DNEL	0.42 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
dihydro penta-methylindanone	33704-61-9	DNEL	5,510 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects

### 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	111 mg/kg	aquatic organisms	water	short-term (single instance)



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Dihydromyrcenol	18479-58-8	PNEC	0.278 mg/l	aquatic organisms	water	intermittent release
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)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.013 mg/l	aquatic organisms	freshwater	short-term (single instance)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.117 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.012 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	PNEC	0.016 mg/kg	terrestrial organisms	soil	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	8.53 mg/kg	aquatic organisms	water	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.23 mg/l	aquatic organisms	water	intermittent release
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.023 mg/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
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.223 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.022 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.031 mg/kg	terrestrial organisms	soil	short-term (single instance)
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	PNEC	2.42 µg/l	aquatic organisms	freshwater	short-term (single instance)
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	PNEC	0.242 µg/l	aquatic organisms	marine water	short-term (single instance)
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	PNEC	3.66 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	PNEC	0.37 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	PNEC	2.34 mg/kg	terrestrial organisms	soil	short-term (single instance)
(ethoxymethoxy)cyclododecane	58567-11-6	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
(ethoxymethoxy)cyclododecane	58567-11-6	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
(ethoxymethoxy)cyclododecane	58567-11-6	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(ethoxymethoxy)cyclododecane	58567-11-6	PNEC	2.35 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(ethoxymethoxy)cyclododecane	58567-11-6	PNEC	0.235 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(ethoxymethoxy)cyclododecane	58567-11-6	PNEC	0.468 mg/kg	terrestrial organisms	soil	short-term (single instance)
Cineole	470-82-6	PNEC	0.57 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
Cineole	470-82-6	PNEC	57 µg/l	aquatic organisms	freshwater	short-term (single instance)
Cineole	470-82-6	PNEC	5.7 µg/l	aquatic organisms	marine water	short-term (single instance)
Cineole	470-82-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Cineole	470-82-6	PNEC	1.425 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Cineole	470-82-6	PNEC	0.142 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Cineole	470-82-6	PNEC	0.25 mg/kg	terrestrial organisms	soil	short-term (single instance)
Methyl atrarate	4707-47-5	PNEC	3.3 µg/l	aquatic organisms	freshwater	short-term (single instance)
Methyl atrarate	4707-47-5	PNEC	0.33 µg/l	aquatic organisms	marine water	short-term (single instance)
Methyl atrarate	4707-47-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Methyl atrarate	4707-47-5	PNEC	89 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Methyl atrarate	4707-47-5	PNEC	8.9 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Methyl atrarate	4707-47-5	PNEC	16 µg/kg	terrestrial organisms	soil	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	0.004 mg/l	aquatic organisms	freshwater	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	99.1 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	9.91 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	17.4 µg/kg	terrestrial organisms	soil	short-term (single instance)



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### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

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

- Type of material

PVA: polyvinyl alcohol, Nitrile

- Material thickness

>0.5 mm

- Breakthrough times of the glove material

>120 minutes (permeation: level 4)

- Other protection measures

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	liquid
Color	not determined
Particle	not relevant (liquid)
Odor	characteristic



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### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	193 °C at 100.9 kPa
Flash point	96 °C
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	65.5 Pa at 25 °C
Density	not determined
Vapor density	this information is not available
Relative density	1.032 – 1.042 (air = 1)
Solubility(ies)	not determined

### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

### 9.2

#### Other information

there is no additional information



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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

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

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

Oxidizers

#### 10.6 Hazardous decomposition products

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

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

##### Classification procedure

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

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

##### Acute toxicity

Shall not be classified as acutely toxic.

##### 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.



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### 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

Harmful 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
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
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	LC50	13 mg/l	fish	96 h
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	EC50	>100 mg/l	aquatic invertebrates	24 h
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	ErC50	>85 mg/l	algae	72 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	LC50	24 mg/l	fish	24 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	EC50	23 mg/l	aquatic invertebrates	48 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	ErC50	25.1 mg/l	algae	72 h
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	LC50	0.22 mg/l	fish	96 h
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	EC50	0.39 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
(ethoxymethoxy)cyclododecane	58567-11-6	LC50	1.9 mg/l	fish	96 h
(ethoxymethoxy)cyclododecane	58567-11-6	EC50	1.6 mg/l	aquatic invertebrates	48 h
(ethoxymethoxy)cyclododecane	58567-11-6	ErC50	>2 mg/l	algae	72 h
3-(p-methoxyphenyl)-2-methylpropionaldehyde	5462-06-6	LC50	5.2 mg/l	fish	96 h
3-(p-methoxyphenyl)-2-methylpropionaldehyde	5462-06-6	EC50	12 mg/l	aquatic invertebrates	48 h
3-(p-methoxyphenyl)-2-methylpropionaldehyde	5462-06-6	ErC50	21 mg/l	algae	72 h
Cineole	470-82-6	LC50	57 mg/l	fish	96 h
Cineole	470-82-6	EC50	>100 mg/l	aquatic invertebrates	48 h
Cineole	470-82-6	ErC50	>74 mg/l	algae	72 h
Methyl atrarate	4707-47-5	LC50	5.2 mg/l	fish	96 h
Methyl atrarate	4707-47-5	EC50	9.3 mg/l	aquatic invertebrates	48 h
Methyl atrarate	4707-47-5	ErC50	3.3 mg/l	algae	96 h
dihydro pentamethylindanone	33704-61-9	LC50	2.12 mg/l	fish	96 h
dihydro pentamethylindanone	33704-61-9	EC50	1.5 mg/l	aquatic invertebrates	48 h
dihydro pentamethylindanone	33704-61-9	ErC50	10 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



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### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	319002-92-1	EC50	>100 mg/l	microorganisms	3 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	EC50	59 mg/l	aquatic invertebrates	24 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	LC50	28 mg/l	fish	3 h
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	EbC50	>272 µg/l	aquatic invertebrates	21 d
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	EC50	>0.23 mg/l	fish	10 d
Cineole	470-82-6	EC50	>100 mg/l	microorganisms	3 h
dihydro pentamethylindanone	33704-61-9	EC50	>1,000 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

Data are not available.

### 12.6 Endocrine disrupting properties

Information on this property is not available.

### 12.7 Other adverse effects

Data are not available.





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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

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 relevant
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 IMO instruments	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.



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### 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	CAS No	Functionality	Authoritative Lists
Cellulose	9004-34-6	substrate	
Dihydromyrcenol	18479-58-8	fragrance	
(5E)-3-Methylcyclopentadec-5-en-1-one	82356-51-2 63314-79-4	fragrance	
Patchouli ethanone	54464-57-2	fragrance	
(ethoxymethoxy)cyclododecane	58567-11-6	fragrance	
Methoxy dicyclopentadiene carboxaldehyde	86803-90-9	fragrance	
3-(p-methoxyphenyl)-2-methylpropionaldehyde	5462-06-6	fragrance	
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	fragrance	
Methyl atrarate	4707-47-5	fragrance	
dihydro pentamethylindanone	33704-61-9	fragrance	
Cineole	470-82-6	fragrance	
benzyl benzoate	120-51-4	fragrance	EU Fragrance Allergens



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Name of substance	CAS No	Functionality	Authoritative Lists
Benzyl salicylate	118-58-1	fragrance	EU Fragrance Allergens
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	23726-93-4 23696-85-7	fragrance	
Geraniol	106-24-1	fragrance	EU Fragrance Allergens
citral	5392-40-5	fragrance	EU Fragrance Allergens
Methyl Ionone	127-51-5	fragrance	EU Fragrance Allergens
Coumarin	91-64-5	fragrance	EU Fragrance Allergens

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

none of the ingredients are listed

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

none of the ingredients are listed

### Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

none of the ingredients are listed

### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

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



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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	AIIC	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	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	all ingredients are listed
US	TSCA	all ingredients are listed

#### 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
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



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### Legend

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
2.2		- Precautionary statements: change in the listing (table)	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® 2022	From ACGIH®, 2022 TLVs® and BEIs® Book. Copyright 2022. 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>
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)
EbC50	≡ 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
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
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



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Abbr.	Descriptions of used abbreviations
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
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
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

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

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



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### 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.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

### Disclaimer

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