



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Interieurparfum Mandarin Bay

Version number: GHS 6.1  
Replaces version of: 2017-10-30 (GHS 5)

Revision: 2019-10-28

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name **Interieurparfum Mandarin Bay**  
Registration number (REACH) not relevant (mixture)  
Product code(s) 95445

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

Relevant identified uses Professional uses  
Industrial uses  
Uses advised against Do not use for private purposes (household).

#### 1.3 Details of the supplier of the safety data sheet

PPG Cleaning Concepts B.V.  
Zwaalweg 5  
2991 ZC Barendrecht  
Netherlands

Tel: +31(0)180859727

E-mail: info@ppgcleaning.com

#### 1.4 Emergency telephone number

Emergency information service For emergency responders  
This number is only for medical emergencies.

Poison centre		
Country	Name	e-Mail
United Kingdom	National Poisons Information Service (NPIS)	director.birmingham.unit@npis.org

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.4S	skin sensitisation	1	Skin Sens. 1	H317
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

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- Signal word danger

- Pictograms

GHS05, GHS07



- Hazard statements

H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

Isotridecanol, ethoxylated, (R)-p-mentha-1,8-diene, 2-methylundecanal

### 2.3 Other hazards

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

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits	M-Factors
Ethanol	CAS No 64-17-5  EC No 200-578-6  Index No 603-002-00-5  REACH Reg. No 01- 2119457610-43-xxxx	5 - < 10	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319		GHS-HC	Eye Irrit. 2; H319: C ≥ 50 %	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits	M-Factors
Isotridecanol, ethoxylated	CAS No 69011-36-5  EC No 500-241-6  REACH Reg. No 01-2119976362-32-xxxx	1 – < 5	Acute Tox. 4 / H302 Eye Dam. 1 / H318	 			
(2-methoxy-methylethoxy) propanol	CAS No 34590-94-8  EC No 252-104-2  REACH Reg. No 01-2119450011-60-xxxx	1 – < 5			IOELV		
(R)-p-mentha-1,8-diene	CAS No 5989-27-5 68606-81-5  EC No 227-813-5  Index No 601-029-00-7  REACH Reg. No 01-2119529223-47-xxxx	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	   	C(b) GHS-HC		
2-methylundecanal	CAS No 110-41-8  EC No 203-765-0  REACH Reg. No 01-2119969443-29-xxxx	0.1 – < 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Aquatic Chronic 1 / H410	 			
Allyl hexanoate	CAS No 123-68-2  EC No 204-642-4  REACH Reg. No 01-2119983573-26-xxxx	0.1 – < 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	 			

### Notes

C(b): The substance is a specific isomer. The mixture of isomers is mentioned in Part 3 of the Regulation (EC) No 1272/2008  
GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)  
IOELV: Substance with a community indicative occupational exposure limit value

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For full text of H-phrases: 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. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 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.

##### Self-protection of the first aider

Provision of sufficient ventilation. Wear suitable protective clothing, gloves and eye/face protection.

#### 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: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water spray, Alcohol resistant foam, 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. Co-ordinate 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. Self-contained breathing apparatus (SCBA). SCBA with a chemical protection suit only where personal (close) contact is likely.

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### SECTION 6: Accidental release measures

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

For non-emergency personnel

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to safety. Provision of sufficient ventilation. Prevent skin contact. Avoid inhaling sprayed product. Collection and use of expertise.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### 6.2 Environmental precautions

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

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

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

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

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

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Recommendations

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

Use local and general ventilation. 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

Control of effects

Protect from sunlight.

Protect against external exposure, such as

Frost

- Packaging compatibilities

Keep only in original container.

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### 7.3 Specific end use(s)

Professional uses. Industrial uses.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Notation	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> ]	Source
EU	(2-methoxy-methylethoxy)propanol	34590-94-8		IOEL V	50	308					2000/39/EC
GB	hydrocarbon mixture (RCP method)			WEL		800		1,600			EH40/2005
GB	(2-methoxy-methylethoxy)propanol	34590-94-8		WEL	50	308					EH40/2005
GB	cycloalkanes (>C7)	5989-27-5		WEL		800					EH40/2005
GB	ethanol	64-17-5		WEL	1,000	1,920					EH40/2005

Notation

Ceiling-C

STEL

TWA

ceiling value is a limit value above which exposure should not occur  
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)  
time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours  
time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Ethanol	64-17-5	DNEL	950 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Ethanol	64-17-5	DNEL	1,900 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
Ethanol	64-17-5	DNEL	343 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Isotridecanol, ethoxylated	69011-36-5	DNEL	294 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Isotridecanol, ethoxylated	69011-36-5	DNEL	2,080 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(2-methoxymethyl-ethoxy)propanol	34590-94-8	DNEL	308 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
(2-methoxymethyl-ethoxy)propanol	34590-94-8	DNEL	283 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
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	DNEL	66.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-methylundecanal	110-41-8	DNEL	25.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
2-methylundecanal	110-41-8	DNEL	7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Allyl hexanoate	123-68-2	DNEL	15 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl hexanoate	123-68-2	DNEL	4.3 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
Ethanol	64-17-5	PNEC	0.96 mg/l	aquatic organisms	freshwater	short-term (single instance)
Ethanol	64-17-5	PNEC	0.79 mg/l	aquatic organisms	marine water	short-term (single instance)
Ethanol	64-17-5	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethanol	64-17-5	PNEC	3.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ethanol	64-17-5	PNEC	0.63 mg/kg	terrestrial organisms	soil	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.015 mg/l	aquatic organisms	water	intermittent release
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.074 mg/l	aquatic organisms	freshwater	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.007 mg/l	aquatic organisms	marine water	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	1.4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.604 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.06 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Isotridecanol, ethoxylated	69011-36-5	PNEC	0.1 mg/kg	terrestrial organisms	soil	short-term (single instance)
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	19 mg/l	aquatic organisms	freshwater	short-term (single instance)
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	1.9 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
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	4,168 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	70.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	7.02 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	2.74 mg/kg	terrestrial organisms	soil	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	14 µg/l	aquatic organisms	freshwater	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	1.4 µg/l	aquatic organisms	marine water	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	1.8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	3.85 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	0.385 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	0.763 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-methylundecanal	110-41-8	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-methylundecanal	110-41-8	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
2-methylundecanal	110-41-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-methylundecanal	110-41-8	PNEC	0.072 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-methylundecanal	110-41-8	PNEC	0.007 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-methylundecanal	110-41-8	PNEC	0.014 mg/kg	terrestrial organisms	soil	short-term (single instance)
Allyl hexanoate	123-68-2	PNEC	0.117 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl hexanoate	123-68-2	PNEC	0.012 µg/l	aquatic organisms	marine water	short-term (single instance)
Allyl hexanoate	123-68-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl hexanoate	123-68-2	PNEC	4.46 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl hexanoate	123-68-2	PNEC	0.446 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl hexanoate	123-68-2	PNEC	0.825 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. Use safety goggle with side 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

NBR: acrylonitrile-butadiene rubber

- Material thickness

> 0.35 mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

- Other protection measures

Protective clothing against liquid chemicals. Footwear protecting against chemicals. Preventive skin protection (barrier creams/ointments) is recommended. Take recovery periods for skin regeneration. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

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
Colour	orange
Odour	characteristic

#### Other safety parameters

pH (value)	7 (20 °C)
Melting point/freezing point	not determined
Initial boiling point and boiling range	90 °C at 1,013 hPa
Flash point	50 °C at 1,013 hPa

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Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapour pressure	74.5 hPa at 25 °C (calculated value, referring to a component of the mixture)
Density	0.98 g/cm <sup>3</sup>
Vapour density	this information is not available

### Solubility(ies)

- Water solubility	miscible in any proportion
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### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
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Auto-ignition temperature	245 °C
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

## 9.2 Other information

VOC content	16.98 %
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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

Oxidisers

### 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.

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### 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 according to GHS (1272/2008/EC, CLP)

##### 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
Isotridecanol, ethoxylated	69011-36-5	oral	500 mg/kg
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	oral	2,000 mg/kg
Allyl hexanoate	123-68-2	oral	100 mg/kg
Allyl hexanoate	123-68-2	dermal	820 mg/kg
Allyl hexanoate	123-68-2	inhalation: vapour	3 mg/l/4h

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Ethanol	64-17-5	oral	LD50	10,470 mg/kg	rat
Ethanol	64-17-5	inhalation: vapour	LC50	124.7 mg/l/4h	rat
Isotridecanol, ethoxylated	69011-36-5	oral	LD50	>2,000 mg/kg	rat
Isotridecanol, ethoxylated	69011-36-5	inhalation: dust/mist	LC50	>1.6 mg/l/4h	rat
Isotridecanol, ethoxylated	69011-36-5	dermal	LD50	5,960 mg/kg	rabbit
(2-methoxymethylethoxy)propanol	34590-94-8	oral	LD50	>5,000 mg/kg	rat
(2-methoxymethylethoxy)propanol	34590-94-8	dermal	LD50	9,510 mg/kg	rabbit
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	oral	LD50	2,000 mg/kg	rat
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	dermal	LD50	5,000 mg/kg	rabbit
2-methylundecanal	110-41-8	oral	LD50	>5,000 mg/kg	rat
Allyl hexanoate	123-68-2	dermal	LD50	820 mg/kg	rabbit

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### 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
Ethanol	64-17-5	LC50	15,400 <sup>mg/l</sup>	fish	96 h
Ethanol	64-17-5	EC50	12,700 <sup>mg/l</sup>	fish	96 h
Ethanol	64-17-5	ErC50	22,000 <sup>mg/l</sup>	algae	96 h
Isotridecanol, ethoxylated	69011-36-5	LL50	2.5 <sup>mg/l</sup>	fish	96 h
Isotridecanol, ethoxylated	69011-36-5	EC50	1.5 <sup>mg/l</sup>	aquatic invertebrates	48 h
(2-methoxymethylethoxy)propanol	34590-94-8	LC50	>1,000 <sup>mg/l</sup>	fish	96 h
(2-methoxymethylethoxy)propanol	34590-94-8	ErC50	>969 <sup>mg/l</sup>	algae	72 h
(2-methoxymethylethoxy)propanol	34590-94-8	EC50	>969 <sup>mg/l</sup>	algae	72 h
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	LC50	720 <sup>µg/l</sup>	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	EC50	688 <sup>µg/l</sup>	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	ErC50	0.32 <sup>mg/l</sup>	algae	72 h

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-methylundecanal	110-41-8	LC50	>0.46 mg/l	fish	48 h
2-methylundecanal	110-41-8	EC50	0.21 mg/l	aquatic invertebrates	48 h
2-methylundecanal	110-41-8	ErC50	0.18 mg/l	algae	72 h
Allyl hexanoate	123-68-2	LC50	0.117 mg/l	fish	48 h
Allyl hexanoate	123-68-2	EC50	2 mg/l	aquatic invertebrates	48 h
Allyl hexanoate	123-68-2	ErC50	>4.6 mg/l	algae	72 h

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Ethanol	64-17-5	EC50	>10,000 mg/l	aquatic invertebrates	24 h
Ethanol	64-17-5	LC50	1,806 mg/l	aquatic invertebrates	10 d
Ethanol	64-17-5	ErC50	675 mg/l	algae	4 d
(2-methoxymethylethoxy)propanol	34590-94-8	LC50	>1,000 mg/l	aquatic invertebrates	24 h
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	EC50	<0.67 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	LC50	0.41 mg/l	fish	8 d
2-methylundecanal	110-41-8	LC50	>0.46 mg/l	fish	24 h
Allyl hexanoate	123-68-2	LC50	0.201 mg/l	fish	24 h

## 12.2 Persistence and degradability

### Degradability of components of the mixture

Name of substance	CAS No	EC No	Process	Degradation rate	Time	Method	Source
Isotridecanol, ethoxylated	69011-36-5	500-241-6	DOC removal	82 %	28 d		ECHA
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	227-813-5	carbon dioxide generation	58.8 %	14 d		ECHA
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	227-813-5	oxygen depletion	80 %	28 d		ECHA

## 12.3 Bioaccumulative potential

Data are not available.

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Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Ethanol	64-17-5		-0.77	
Isotridecanol, ethoxylated	69011-36-5	232.5	4.55 – 6.4 (pH value: 6.5, 20 °C)	
(2-methoxymethylethoxy)propan-ol	34590-94-8		0.004 (25 °C)	
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5		4.38 (pH value: 7.2, 37 °C)	
2-methylundecanal	110-41-8		4.9 (35 °C)	
Allyl hexanoate	123-68-2	59.2	3.191 (pH value: 5, 20 °C)	

### 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

None of the ingredients are listed.

## 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/packagings

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 Annex II of MARPOL and the IBC Code | The cargo is not intended to be carried in bulk.                      |

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### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR. Not subject to RID.

#### European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

Identifier number	9006
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Number of cones/blue lights	0

#### International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

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

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

#### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

#### Deco-Paint Directive (2004/42/EC)

VOC content	14.57 %
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#### Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	16.98 %
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#### Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

#### Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

#### Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

none of the ingredients are listed

#### Regulation 648/2004/EC on detergents

Labelling of contents	
Constituents	Weight % content (or range)
non-ionic surfactants aliphatic hydrocarbons	less than 5 %

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### Labelling of contents

Constituents	Weight % content (or range)
perfumes (d-Limonene, LINALOOL, hexyl cinnamic aldehyde alpha, CITRAL, GERANIOL, CITRONELLOL)	

### National inventories

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed

#### Legend

REACH Reg. REACH registered substances

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)



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Abbr.	Descriptions of used abbreviations
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
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
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
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose 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
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RCP	Reciprocal calculation procedure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SCBA	Self-contained breathing apparatus
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit

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Abbr.	Descriptions of used abbreviations
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). 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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.