

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

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

#### 1.1 Product identifier

Trade name : BLUSHING SUEDE IFRA49

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

Use of the Sub-stance/Mixture : Fragrance mix

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

Company : Candle Supply Pty Ltd  
3/8-9 Lagana Place,  
Wetherill Park NSW 2164  
ABN: 70612899626

Telephone : +61287414000

E-mail address of person : [customerservice@candlesupply.com.au](mailto:customerservice@candlesupply.com.au)

#### 1.4 Emergency telephone number : 13 11 26

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1      H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Category 2      H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.

**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P391 Collect spillage.

### Hazardous components which must be listed on the label:

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one  
 $\alpha$ -Hexylcinnamaldehyde  
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool  
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one  
(R)-p-mentha-1,8-diene; d-limonene  
Coumarin  
3,7-Dimethyloctan-3-ol  
3-p-Cumenyl-2-methylpropionaldehyde  
Geranyl acetate  
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1-(1,2,3,4,5,6,7,8-Octahydro-	54464-57-2	Skin Irrit. 2; H315	>= 2,5 - < 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version  
3.0

Revision Date:  
29.10.2022

SDS Number:  
292180

Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	259-174-3	Skin Sens. 1; H317 Aquatic Chronic 1; H410	
		M-Factor (Chronic aquatic toxicity): 1	
$\alpha$ -Hexylcinnamaldehyde	165184-98-5 101-86-0	Skin Sens. 1; H317 Aquatic Acute 1; H400	>= 2,5 - < 10
	202-983-3	Aquatic Chronic 2; H411	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	Eye Irrit. 2; H319	>= 1 - < 10
	405-040-6 603-101-00-3 01-2119455547-30 01-0000015458-64		
benzyl benzoate	120-51-4	Acute Tox. 4; H302	>= 1 - < 2,5
	204-402-9	Aquatic Acute 1; H400	
	607-085-00-9	Aquatic Chronic 2; H411	
		Acute toxicity estimate	
		Acute dermal toxicity: 4.000 mg/kg	
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	78-70-6	Skin Irrit. 2; H315	>= 1 - < 10
	201-134-4	Eye Irrit. 2; H319	
	603-235-00-2	Skin Sens. 1B; H317	
$\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol	65113-99-7	Eye Irrit. 2; H319	>= 1 - < 2,5
	1471313-03-7	Aquatic Chronic 2; H411	
	265-453-0 01-2119975588-15		
1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	Acute Tox. 4; H302	>= 0,25 - < 1
	21145-77-7	Aquatic Acute 1; H400	
	216-133-4	Aquatic Chronic 1; H410	

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version  
3.0

Revision Date:  
29.10.2022

SDS Number:  
292180

Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

	01-2119539433-40 01-2119539433-40	M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5 204-846-3	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0,25 - < 1
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5 227-813-5 601-029-00-7	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
[3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	469-61-4 207-418-4	Skin Irrit. 2; H315 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,25 - < 1
[1AS-(1 $\alpha\alpha$ ,4 $\alpha\beta$ ,8 $\alpha R^*$ )]-1,1a,4,4a,5,6,7,8-octahydro-2,4a,8,8-tetramethylcyclopropa[d]naphthalene	470-40-6 207-426-8	Aquatic Acute 1; H400	>= 0,25 - < 1
Coumarin	91-64-5 202-086-7 01-2119949300-45 01-2119943756-26 01-2119949300-45 01-2119949300-45	Acute Tox. 4; H302 Skin Sens. 1B; H317 Aquatic Chronic 3; H412  Acute toxicity estimate  Acute oral toxicity: 500 mg/kg	>= 0,25 - < 1
3,7-Dimethyloctan-3-ol	78-69-3 201-133-9 01-2119454788-21	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version  
3.0

Revision Date:  
29.10.2022

SDS Number:  
292180

Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

	01-2119454788-21		
3-p-Cumenyl-2-methylpropionaldehyde	103-95-7 203-161-7	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,1 - < 0,25
2,6-di-tert-Butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
Geranyl acetate	105-87-3 203-341-5	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 0,1 - < 0,25
[3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-Octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene	546-28-1 208-898-8	Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,1 - < 0,25
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	57378-68-4 260-709-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,025 - < 0,1
Substances with a workplace exposure limit :			
(2-Methoxymethylethoxy)propanol	34590-94-8 252-104-2 01-2119450011-60		>= 50 - < 70

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

	01-2119450011-60		
	01-2119450011-60		
	01-2119450011-60		
	01-2119450011-60		

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- Protection of first-aiders : First Aid responders should pay attention to self-protection  
and use the recommended protective clothing
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get  
medical attention.  
Keep patient warm and at rest.  
If breathing is irregular or stopped, administer artificial respira-  
tion.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Risks : May cause an allergic skin reaction.  
First aider needs to protect himself.

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

- Treatment : The first aid procedure should be established in consultation  
with the doctor responsible for industrial medicine.  
There is no specific antidote available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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

Hazardous combustion products : No hazardous combustion products are known

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In the event of fire and/or explosion do not breathe fumes. Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat or drink. Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No special restrictions on storage with other products.
- Storage class (TRGS 510) : 10, Combustible liquids
- Further information on storage stability : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

- Specific use(s) : Fragrance mix

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-Methoxymethylethoxy)propanol	34590-94-8	MAK (vapour)	50 ppm 310 mg/m <sup>3</sup>	DFG
		TWA	50 ppm 308 mg/m <sup>3</sup>	91/322/EEC
		TWA	50 ppm 308 mg/m <sup>3</sup>	EU SCOEL



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version  
3.0

Revision Date:  
29.10.2022

SDS Number:  
292180

Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

		AGW (Vapor and aerosol)	50 ppm 310 mg/m <sup>3</sup>	DE TRGS 900
Further information: Sum of vapors and aerosols.				
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5	MAK	5 ppm 28 mg/m <sup>3</sup>	DFG
		AGW	5 ppm 28 mg/m <sup>3</sup>	DE TRGS 900
2,6-di-tert-Butyl-p-cresol	128-37-0	MAK (Vapor and aerosol, inhalable fraction.)	10 mg/m <sup>3</sup>	DFG
		AGW (inhalable fraction)	10 mg/m <sup>3</sup>	DE TRGS 900
Further information: Sum of vapors and aerosols.				

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Citronellyl acetate	Workers	Inhalation	Long-term systemic effects	17 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	4,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,2 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	2,4 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2,4 mg/kg bw/day
	3,7-Dimethyloctan-3-ol	Workers	Inhalation	Long-term systemic effects
Workers		Skin contact	Long-term systemic effects	3,16 mg/kg bw/day
Workers		Skin contact	Long-term local effects	0,19 mg/cm <sup>2</sup>
Consumers		Inhalation	Long-term systemic effects	2,75 mg/m <sup>3</sup>
Consumers		Skin contact	Long-term systemic effects	1,58 mg/kg bw/day
Consumers		Skin contact	Long-term local effects	0,19 mg/cm <sup>2</sup>
Consumers		Ingestion	Long-term systemic effects	1,58 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Citronellyl acetate	Fresh water	0,003 mg/l
	Fresh water sediment	0,851 mg/kg dry weight (d.w.)
	Marine water	0,000348 mg/l
	Marine sediment	0,085 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0,168 mg/kg dry weight (d.w.)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

3,7-Dimethyloctan-3-ol	Fresh water	0,0089 mg/l
	Fresh water sediment	0,082 mg/kg dry weight (d.w.)
	Marine water	0,00089 mg/l
	Marine sediment	0,0082 mg/kg dry weight (d.w.)
	Sewage treatment plant	450 mg/l
	Soil	0,011 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm).

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Not required; except in case of aerosol formation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colorless to yellow-orange
Odour	: characteristic
Odour Threshold	: No data available
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined
Upper explosion limit / Upper flammability limit	: Vapours may form explosive mixtures with air.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0	Revision Date: 29.10.2022	SDS Number: 292180	Date of last issue: 29.08.2022 Date of first issue: 28.07.2022
----------------	------------------------------	-----------------------	---

Lower explosion limit / Lower flammability limit : Vapours may form explosive mixtures with air.

Flash point : 88 °C

Decomposition temperature : not determined

pH : Not applicable

### Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

### Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : < 1 kPa (50 °C) calculated

Relative density : 0,9499 - 0,9699 (20 °C)  
relation to density of water at 4°C

Bulk density : Not applicable

Relative vapour density : not determined

## 9.2 Other information

Explosives : Due to its structural properties, the product is not classified as explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : The substance or mixture is not classified as self heating.

Evaporation rate : Not applicable

Molecular weight : Not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version	Revision Date:	SDS Number:	Date of last issue: 29.08.2022
3.0	29.10.2022	292180	Date of first issue: 28.07.2022

---

Hazardous reactions : No decomposition if stored and applied as directed.  
Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

##### **1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

##### **$\alpha$ -Hexylcinnamaldehyde:**

Acute oral toxicity : LD50 Oral (Rat, male): 3.100 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit, female): > 3.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### **tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

### **benzyl benzoate:**

Acute oral toxicity : LD50 Oral (Rat): 1.500 mg/kg

Acute dermal toxicity : Acute toxicity estimate: 4.000 mg/kg

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Acute oral toxicity : LD50 (Rat, male and female): 2.790 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Remarks: Weight of Evidence

Acute dermal toxicity : LD50 (Rabbit): 5.610 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

### **$\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol:**

Acute oral toxicity : LD50 Oral (Rat): 6.700 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:**

Acute oral toxicity : LD50 (Rat): 570 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

### **3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

### **(R)-p-mentha-1,8-diene; d-limonene:**

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

### **Coumarin:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### **3,7-Dimethyloctan-3-ol:**

Acute oral toxicity : LD50 Oral (Rat, male and female): 8.270 mg/kg  
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg  
GLP: No information available.

### **3-p-Cumenyl-2-methylpropionaldehyde:**

Acute oral toxicity : LD50 (Rat): 3.810 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat): > 5.000 mg/kg

### **2,6-di-tert-Butyl-p-cresol:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 6.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **Geranyl acetate:**

Acute oral toxicity : LD50 Oral (Rat, male and female): 6.330 mg/kg  
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.460 mg/kg  
GLP: no

### **1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:**

Acute oral toxicity : LD50 Oral (Mouse, male and female): 1.400 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### **(2-Methoxymethylethoxy)propanol:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 500 mg/l  
Exposure time: 7 h

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

### **Skin corrosion/irritation**

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### Components:

#### **1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:**

Species : reconstructed human epidermis (RhE)  
Exposure time : 0,25 h  
Method : OECD 439  
Result : Skin irritation  
GLP : yes  
Concentration : 100 %

#### **$\alpha$ -Hexylcinnamaldehyde:**

Species : Rabbit  
Exposure time : 4 h  
Method : Regulation (EC) No. 440/2008, Annex, B.4  
Result : Mild skin irritation  
GLP : yes  
Dose : 0,5 ml  
Concentration : 100 %

#### **tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes  
Dose : 0,5 ml  
Concentration : 100 %

#### **benzyl benzoate:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Mild skin irritation  
GLP : yes  
Dose : 0,5 ml  
Concentration : 100 %

#### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Skin irritation  
GLP : yes  
Concentration : 100 %

#### **$\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol:**

Species : Rabbit  
Exposure time : 4 h  
Result : Mild skin irritation  
Concentration : 100 %

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### 1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:

Species : Humans  
Result : No skin irritation  
Concentration : 10 %

### 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one:

Species : Rabbit  
Exposure time : 24 h  
Result : Mild skin irritation  
Concentration : 100 %

### Coumarin:

Species : Rabbit  
Method : Regulation (EC) No. 440/2008, Annex, B.4  
Result : No skin irritation  
GLP : yes

### 3,7-Dimethyloctan-3-ol:

Species : Rabbit  
Result : Skin irritation  
GLP : no  
Concentration : 100 %

Species : reconstructed human epidermis (RhE)  
Exposure time : 1 h  
Method : OECD Test Guideline 439  
Result : Skin irritation  
Concentration : 100 %

### 3-p-Cumenyl-2-methylpropionaldehyde:

Species : Humans  
Result : Mild skin irritation  
Concentration : 3 %

Species : Rabbit  
Result : Irritating to skin.

### 2,6-di-tert-Butyl-p-cresol:

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes  
Dose : 250 mg  
Concentration : 100 %

### 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Species : reconstructed human epidermis (RhE)



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Exposure time : 15 min  
Method : Tested according to Annex V of Directive 67/548/EEC.  
Result : Skin irritation  
GLP : yes  
Dose : 10  $\mu$ l  
Concentration : 100 %

### **(2-Methoxymethylethoxy)propanol:**

Species : Rabbit  
Result : Mild skin irritation  
Dose : 500 mg

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Components:**

#### **1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:**

Species : Rabbit  
Method : Draize Test  
Result : No eye irritation  
Dose : 0,1 ML  
Concentration : 2,5 %  
solvents : Ethyl alcohol

#### **$\alpha$ -Hexylcinnamaldehyde:**

Species : Rabbit  
Method : Regulation (EC) No. 440/2008, Annex, B.5  
Result : No eye irritation  
GLP : yes  
Dose : 0,1 ML  
Concentration : 100 %

#### **tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.  
GLP : yes  
Dose : 0,1 ML  
Concentration : 100 %

#### **benzyl benzoate:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Mild eye irritation  
GLP : yes  
Dose : 0,1 ML  
Concentration : 100 %

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.  
GLP : no  
Concentration : 100 %  
Remarks : Weight of Evidence

### **$\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Eye irritation  
GLP : yes  
Concentration : 100 %

### **1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:**

Species : Rabbit  
Exposure time : 24 h  
Result : Mild eye irritation  
Dose : 100 MG

### **3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one:**

Species : Rabbit  
Result : Mild eye irritation  
GLP : No information available.  
Dose : 0,1 ML  
Concentration : 100 %

### **Coumarin:**

Species : Rabbit  
Exposure time : 96 h  
Result : No eye irritation  
GLP : yes  
Dose : 50 MG  
Concentration : 100 %

### **3,7-Dimethyloctan-3-ol:**

Species : Rabbit  
Result : Eye irritation  
GLP : no  
Dose : 0,05 ML  
Concentration : 100 %

### **3-p-Cumenyl-2-methylpropionaldehyde:**

Species : Rabbit  
Result : No eye irritation  
Dose : 0,1 ML  
Concentration : 6 %  
solvents : Propylene glycol

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### 2,6-di-tert-Butyl-p-cresol:

Species : Rabbit  
Method : Draize Test  
Result : Mild eye irritation

### Geranyl acetate:

Species : Rabbit  
Exposure time : 24 h  
Method : OECD Test Guideline 405  
Result : Mild eye irritation  
GLP : yes  
Dose : 0,1 ML  
Concentration : 100 %

### 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Species : Rabbit  
Result : No eye irritation  
Concentration : 1 %  
solvents : Propylene glycol

Species : hen' s egg  
Exposure time : 0,6 min  
Method : OECD Test Guideline 438  
Result : No eye irritation  
GLP : yes  
Dose : 30 YL  
Concentration : 100 %

### (2-Methoxymethylethoxy)propanol:

Species : Rabbit  
Exposure time : 24 h  
Result : Mild eye irritation  
Dose : 500 MG

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Concentration : 6,07 %  
solvents : Diethylphthalate/Ethyl alcohol (1:1)

### **α-Hexylcinnamaldehyde:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : No information available.  
Concentration : 6,6 - 11,5 %  
solvents : Acetone/Olive oil (4:1)

### **tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : No sensitizing effect.  
GLP : yes  
Concentration : 25 %

### **benzyl benzoate:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : No sensitizing effect.  
GLP : yes  
Concentration : 50 %  
solvents : Diethylphthalate/Ethyl alcohol (3:1)

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : yes  
Concentration : 35,5 %  
solvents : N,N-Dimethylformamide

### **1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:**

Species : Humans  
Result : No sensitizing effect.  
Concentration : 2 %

### **3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Concentration : 21,8 %

### **Coumarin:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : No information available.  
Concentration : 2,4 - 3,7 %

### **3,7-Dimethyloctan-3-ol:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : yes  
Concentration : 7,6 %  
solvents : Ethyl Methyl Ketone

### **3-p-Cumenyl-2-methylpropionaldehyde:**

Test Type : HRIPT  
Species : Humans  
Result : No sensitizing effect.  
Concentration : 2 %

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : No information available.  
Concentration : 22,3 %  
solvents : Acetone/Olive oil (4:1)

### **2,6-di-tert-Butyl-p-cresol:**

Species : Humans  
Result : No sensitizing effect.  
GLP : No information available.  
Rate of positive effects : 11/11454  
Concentration : 2 %  
solvents : Petrolatum

### **Geranyl acetate:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : yes  
Concentration : 100 %

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### **(2-Methoxymethylethoxy)propanol:**

Result : No sensitizing effect.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: mouse lymphoma L5178Y cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

#### **$\alpha$ -Hexylcinnamaldehyde:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: mouse lymphoma L5178Y cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Mouse (male and female)  
Strain: NMRI  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No information available.

#### **tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: V79 cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 473  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: mouse lymphoma L5178Y cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

GLP: yes

### **$\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: yes

### **1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

### **Coumarin:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 473  
Result: Positive results were obtained in some in vitro tests.  
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 476  
Result: negative  
GLP: No information available.

Test Type: sister chromatid exchange assay  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 479  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No information available.

### **3,7-Dimethyloctan-3-ol:**

Genotoxicity in vitro : Test Type: Ames test



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version	Revision Date:	SDS Number:	Date of last issue: 29.08.2022
3.0	29.10.2022	292180	Date of first issue: 28.07.2022

---

Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: V79 cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: V79 cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

### **3-p-Cumenyl-2-methylpropionaldehyde:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: yes

### **2,6-di-tert-Butyl-p-cresol:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: mammalian liver cells  
Result: negative  
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test  
Result: negative

### **Geranyl acetate:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Result: negative  
GLP: yes

### 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Escherichia coli  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Human lymphocytes  
Method: OECD 473  
Result: positive  
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Human lymphocytes  
Method: OECD 473  
Result: negative  
GLP: yes

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Mouse (male)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

### Components:

### 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Species : Rat, male and female  
NOAEL : 120 mg/kg bw/day

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version	Revision Date:	SDS Number:	Date of last issue: 29.08.2022
3.0	29.10.2022	292180	Date of first issue: 28.07.2022

---

Application Route	:	Oral
Exposure time	:	91 d
Control Group	:	yes
Method	:	OECD Test Guideline 408
GLP	:	yes
Target Organs	:	Liver, spleen

### Aspiration toxicity

Not classified based on available information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,3 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,38 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 2,6 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): >= 2,6

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

		mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms	:	NOEC (Activated sludge): > 100 mg/l Exposure time: 42 d Test Type: static test Method: OECD 301F GLP: yes
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,16 mg/l End point: mortality Exposure time: 30 d Species: Danio rerio (zebra fish) Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 210 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,028 mg/l End point: Reproduction rate Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: flow-through test Analytical monitoring: yes Method: OECD 211 GLP: yes
M-Factor (Chronic aquatic toxicity)	:	1
<b><math>\alpha</math>-Hexylcinnamaldehyde:</b>		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 1,7 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna): > 0,36 - < 0,59 mg/l End point: Immobilization Exposure time: 48 h Test Type: flow-through test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic	:	EC50 (Desmodesmus subspicatus (green algae)): > 0,065

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

plants      mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 0,065 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,069 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD 211  
GLP: yes

### **tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 354 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): ca. 320 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Toxicity to microorganisms : EC50 (Activated sludge): > 1.000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Method: OECD 209  
GLP: yes

### **benzyl benzoate:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2,32 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1.  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,09 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,475 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,247 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): > 10.000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Method: OECD 209 / ISO 8192  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,258 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD 211  
GLP: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 27,8 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 59 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 (part 9)  
GLP: no
- EC10 (Desmodesmus subspicatus (green algae)): 54,3 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 (part 9)  
GLP: no
- Toxicity to microorganisms : EC50 (Activated sludge): > 100 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD 209  
GLP: yes

### **$\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,3 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,1 mg/l  
End point: Immobilization  
Exposure time: 48 h

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 17 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,54 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

### **1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:**

Toxicity to fish : LC50 : 0,314 mg/l  
Exposure time: 21 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 0,244 mg/l  
Exposure time: 21 h

NOEC (Daphnia (water flea)): 0,196 mg/l  
Exposure time: 21 h  
Test Type: Reproduction Test

Toxicity to algae/aquatic plants : EC50 : 0,8 mg/l  
Exposure time: 72 h

NOEC : 0,4 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### **3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10,9 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203



## **SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

### **BLUSHING SUEDE IFRA49**

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 4,7 mg/l

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

aquatic invertebrates      End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: no

Toxicity to algae/aquatic plants      :      (Desmodesmus subspicatus (green algae)): > 20 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: no

### **[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:**

Toxicity to daphnia and other aquatic invertebrates      :      EC50 (Daphnia (water flea)): 0,044 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity)      :      10

M-Factor (Chronic aquatic toxicity)      :      10

### **Coumarin:**

Toxicity to microorganisms      :      IC50 (Activated sludge): 640 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Method: ISO 8192  
GLP: No information available.

### **3,7-Dimethyloctan-3-ol:**

Toxicity to fish      :      LC50 (Danio rerio (zebra fish)): 8,9 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates      :      EC50 (Daphnia magna): 14,2 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants      :      EC50 (Desmodesmus subspicatus (green algae)): 21,6 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Method: DIN 38412 (part 9)  
GLP: no

EC10 (Desmodesmus subspicatus (green algae)): 9,5 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 (part 9)  
GLP: no

Toxicity to microorganisms : EC10 (Pseudomonas putida): 450 mg/l  
End point: Respiration inhibition  
Exposure time: 0,5 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 (part 27)  
GLP: no

### 3-p-Cumenyl-2-methylpropionaldehyde:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 1,4 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 3,8 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): ca. 100 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD 209  
GLP: yes

### 2,6-di-tert-Butyl-p-cresol:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Toxicity to fish : LC50 (Danio rerio (zebra fish)):  $\geq 0,57$  mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.1.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 0,48 mg/l  
End point: mortality  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 0,4 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.3.  
GLP: yes

EC10 (Desmodesmus subspicatus (green algae)): ca. 0,4 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: yes  
Remarks: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Activated sludge): > 1.000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD 209  
GLP: yes

Toxicity to fish (Chronic toxicity) : 0,053 mg/l  
Exposure time: 30 d  
Species: Oryzias latipes (Japanese medaka)  
Method: OECD 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,069 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD 211  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### Geranyl acetate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 14,1 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.2.  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 3,72 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 0,585 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC20 (Activated sludge): ca. 800 mg/l  
End point: Respiration inhibition  
Exposure time: 0,5 h  
Test Type: static test  
Analytical monitoring: no  
Method: ISO 8192  
GLP: no

### [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-Octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene:

Toxicity to fish : LC50 (Fish): 0,042 mg/l  
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

### 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 0,977 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version	Revision Date:	SDS Number:	Date of last issue: 29.08.2022
3.0	29.10.2022	292180	Date of first issue: 28.07.2022

---

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 4,54 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,883 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Activated sludge): 241 mg/l  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD 209  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,35 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD 211  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

### **(2-Methoxymethylethoxy)propanol:**

Toxicity to fish : LC50 (Fathead minnow (Pimephales promelas)): > 10.000 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 1.919 mg/l

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): > 969 mg/l  
Exposure time: 96 h

## 12.2 Persistence and degradability

### **Components:**

#### **1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:**

Biodegradability : Test Type: MITI Test II  
Result: Not inherently biodegradable.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version	Revision Date:	SDS Number:	Date of last issue: 29.08.2022
3.0	29.10.2022	292180	Date of first issue: 28.07.2022

---

Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD 302C  
GLP: yes

Result: Product is not persistent.  
Remarks: Weight of Evidence

### **$\alpha$ -Hexylcinnamaldehyde:**

Biodegradability : Test Type: Manometric Respirometry Test  
Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: no

### **tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

Biodegradability : Test Type: Closed Bottle test  
Result: Inherently biodegradable.  
Biodegradation: 64,8 %  
Exposure time: 60 d  
Method: OECD 301D  
GLP: no  
Remarks: Weight of Evidence

### **benzyl benzoate:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 94,4 %  
Exposure time: 28 d  
Method: OECD 301  
GLP: yes

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Biodegradability : Test Type: Closed Bottle test  
Result: Readily biodegradable.  
Biodegradation: 64,2 %  
Exposure time: 28 d  
Method: OECD 301D  
GLP: yes

### **$\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

### **1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:**



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version	Revision Date:	SDS Number:	Date of last issue: 29.08.2022
3.0	29.10.2022	292180	Date of first issue: 28.07.2022

---

Biodegradability : Test Type: MITI Test II  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD 302C

### **3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one:**

Biodegradability : Test Type: Closed Bottle test  
Result: Readily biodegradable.  
Biodegradation: 42,51 %  
Exposure time: 28 d  
Method: OECD 301D  
GLP: no

### **(R)-p-mentha-1,8-diene; d-limonene:**

Biodegradability : Test Type: CO2 Evolution Test  
Result: Readily biodegradable.  
Biodegradation: 71 %  
Exposure time: 28 d  
Method: OECD 301B  
GLP: yes

### **[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

### **[1AS-(1 $\alpha$ ,4 $\alpha$ ,5 $\beta$ ,8 $\alpha$ R\*)]-1,1a,4,4a,5,6,7,8-octahydro-2,4a,8,8-tetramethylcyclopropa[d]naphthalene:**

Biodegradability : Test Type: Manometric respiration test  
Result: Not readily biodegradable.  
Biodegradation: 56 %  
Exposure time: 60 d  
Method: OECD 301F  
GLP: yes

### **Coumarin:**

Biodegradability : Test Type: Manometric respiration test  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

### **3,7-Dimethyloctan-3-ol:**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO<sub>2</sub>):  
Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD 301B  
GLP: yes

Test Type: Manometric respiration test  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 60 - 70 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

### **3-p-Cumenyl-2-methylpropionaldehyde:**

Biodegradability : Test Type: CO<sub>2</sub> Evolution Test  
Result: Readily biodegradable.  
Biodegradation: 66 %  
Exposure time: 28 d  
Method: OECD 301B  
GLP: No information available.

### **2,6-di-tert-Butyl-p-cresol:**

Biodegradability : Test Type: MITI test, (BOD/COD):  
Result: Not readily biodegradable.  
Biodegradation: 4,5 %  
Exposure time: 28 d  
Method: OECD 301C

### **Geranyl acetate:**

Biodegradability : Test Type: Closed Bottle test  
Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 28 d  
Method: OECD 301D  
GLP: yes

### **[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-Octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Information given is based on data obtained from similar substances.

### **1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:**

Biodegradability : Test Type: MITI Test II  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 31 d  
Method: OECD 302C  
GLP: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 16 %  
Exposure time: 28 d  
Method: OECD 301C  
GLP: yes

### **(2-Methoxymethylethoxy)propanol:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 96 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

### 12.3 Bioaccumulative potential

#### **Components:**

#### **1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 21 d  
Bioconcentration factor (BCF): 600  
Method: OECD Test Guideline 305  
GLP: yes

Partition coefficient: n-octanol/water : log Pow: 5,65 (30 °C)  
Method: OECD 117  
GLP: yes

#### **$\alpha$ -Hexylcinnamaldehyde:**

Partition coefficient: n-octanol/water : log Pow: 5,3 (24 °C)  
Method: OECD 117  
GLP: yes

#### **tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

Partition coefficient: n-octanol/water : log Pow: ca. 1,65 (23 °C)  
pH: > 6,09 - < 6,74  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: yes

#### **benzyl benzoate:**

Partition coefficient: n-octanol/water : log Pow: ca. 3,97 (25 °C)

#### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Partition coefficient: n-octanol/water : log Pow: 2,84 (25 °C)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

octanol/water      Method: OECD Test Guideline 107  
GLP: no

### **$\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol:**

Partition coefficient: n-octanol/water      : log Pow: 4,6 - 4,8

### **1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:**

Partition coefficient: n-octanol/water      : log Pow: 5,7

### **3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one:**

Partition coefficient: n-octanol/water      : log Pow: 4,288 (25 °C)  
pH: 4,7  
Method: OECD 117  
GLP: no

### **[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:**

Partition coefficient: n-octanol/water      : log Pow: 6,09  
Remarks: calculated

### **Coumarin:**

Partition coefficient: n-octanol/water      : log Pow: 1,39

### **3,7-Dimethyloctan-3-ol:**

Partition coefficient: n-octanol/water      : log Pow: 3,3 (20 °C)  
Method: OECD Test Guideline 107  
GLP: yes

### **3-p-Cumenyl-2-methylpropionaldehyde:**

Partition coefficient: n-octanol/water      : log Pow: 3,4 (35 °C)  
Method: OECD 117  
GLP: yes

### **2,6-di-tert-Butyl-p-cresol:**

Partition coefficient: n-octanol/water      : log Pow: 5,1

### **Geranyl acetate:**

Partition coefficient: n-octanol/water      : log Pow: 4,04  
Method: OECD 117  
GLP: No information available.

### **1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:**

Bioaccumulation      : Species: Cyprinus carpio (Carp)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

Exposure time: 60 d  
Temperature: 25 °C  
Bioconcentration factor (BCF): 58,3  
Method: OECD Test Guideline 305  
GLP: yes

Partition coefficient: n-octanol/water : log Pow: 4,2

### **(2-Methoxymethylethoxy)propanol:**

Partition coefficient: n-octanol/water : log Pow: 1,01

## 12.4 Mobility in soil

### **Components:**

#### **$\alpha$ -Hexylcinnamaldehyde:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: Soil  
log Koc: 4,2  
Method: OECD 121

#### **tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):**

Distribution among environmental compartments : Adsorption/Soil  
Medium: Soil  
Koc: ca. 25, log Koc: ca. 1,4  
Method: OECD 121

#### **benzyl benzoate:**

Distribution among environmental compartments : Adsorption/Soil  
Koc: 6310, log Koc: 3,8  
Method: OECD 121

## 12.5 Results of PBT and vPvB assessment

### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

---

### 12.7 Other adverse effects

#### **Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

#### **Components:**

##### **$\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

##### **1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

##### **Coumarin:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

##### **3,7-Dimethyloctan-3-ol:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : UN 3082

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version	Revision Date:	SDS Number:	Date of last issue: 29.08.2022
3.0	29.10.2022	292180	Date of first issue: 28.07.2022

---

**RID** : UN 3082

**IMDG** : UN 3082

**IATA** : UN 3082

### 14.2 UN proper shipping name

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(OCTAHYDRO-TETRAMETHYL-NAPHTHALENYL-ETHANONE, ALPHA-CEDRENE)

**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(OCTAHYDRO-TETRAMETHYL-NAPHTHALENYL-ETHANONE, ALPHA-CEDRENE)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(OCTAHYDRO-TETRAMETHYL-NAPHTHALENYL-ETHANONE, ALPHA-CEDRENE)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(OCTAHYDRO-TETRAMETHYL-NAPHTHALENYL-ETHANONE, ALPHA-CEDRENE)

### 14.3 Transport hazard class(es)

**ADR** : 9

**RID** : 9

**IMDG** : 9

**IATA** : 9

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**RID**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version	Revision Date:	SDS Number:	Date of last issue: 29.08.2022
3.0	29.10.2022	292180	Date of first issue: 28.07.2022

---

Packing group : III  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

Orange, sweet, ext. (Number on list 40, 3)

$\alpha,\alpha$ -Dimethylphenethyl butyrate (Number on list 3)

Juniper, Juniperus virginiana, ext. (Number on list 3)

Citronellyl acetate (Number on list 3)

$\alpha$ -Hexylcinnamaldehyde (Number on list 3)

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (Number on list 3)

3-p-Cumenyl-2-methylpropionaldehyde (Number on list 3)

3,7-Dimethyloctan-3-ol (Number on list 3)



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

list 3)  
Ionone, methyl- (Number on list 3)  
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (Number on list 3)  
 $\alpha,\beta,2,2,3$ -Pentamethylcyclopent-3-ene-1-butanol (Number on list 3)  
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol (Number on list 3)  
benzyl benzoate (Number on list 3)  
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (Number on list 3)  
Geranyl acetate (Number on list 3)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:  
Not applicable  
Inorganic substances in powdered form:  
Not applicable  
Inorganic substances in vapour or gaseous form:  
Not applicable  
Organic Substances:  
portion Class 1: 0,23 %  
  
Carcinogenic substances:  
Not applicable  
Mutagenic:  
Not applicable  
Toxic to reproduction:  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 62,72 %

**Other regulations:**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

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Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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### SECTION 16: Other information

#### Full text of H-Statements

H226 : Flammable liquid and vapour.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
91/322/EEC : Europe. Commission Directive 91/322/EEC on establishing indicative limit values  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
DFG : Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).  
EU SCOEL : EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended  
91/322/EEC / TWA : Time weighted average  
DE TRGS 900 / AGW : Exposure limit(s):  
DFG / MAK : Maximum allowable concentration:  
EU SCOEL / TWA : Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BLUSHING SUEDE IFRA49

Version 3.0      Revision Date: 29.10.2022      SDS Number: 292180      Date of last issue: 29.08.2022  
Date of first issue: 28.07.2022

boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Sens. 1                      H317  
Aquatic Chronic 2                H411

#### Classification procedure:

Calculation method  
Calculation method

*The data contained in this Safety Data Sheet is accurate to the best knowledge of Candle Supply Pty Ltd, applies to the product as supplied Candle Supply Pty Ltd, and does not relate to use in combination with any other material or in any process. Data and information is furnished without warranty expressed or implied, nor does Candle Supply Pty Ltd, assume responsibility for use or reliance upon this data.*

*This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact [customerservice@candlesupply.com.au](mailto:customerservice@candlesupply.com.au)*