

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SALTED CARAMEL ICE CREAM

Version 1.0      Revision Date: 11.04.2022      SDS Number: 400554      Date of last issue: -  
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : SALTED CARAMEL ICE CREAM

#### 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

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

Phone Number: 02 8741 4000  
e-mail: [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)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
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)


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- Hazard pictograms : 
- Signal word : Warning
- Hazard statements : H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.
- Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P391 Collect spillage.

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

2-Hydroxy-3-methylcyclopent-2-enone  
Cinnamaldehyde

### 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)
benzyl benzoate	120-51-4 204-402-9	Acute Tox. 4; H302 Aquatic Acute 1; H400	>= 50 - < 70

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	607-085-00-9	Aquatic Chronic 2; H411 <hr/> Acute toxicity estimate <hr/> Acute dermal toxicity: 4.000 mg/kg	
3-Ethoxy-4-hydroxybenzaldehyde	121-32-4  204-464-7	Eye Irrit. 2; H319	>= 1 - < 10
2-Ethyl-3-hydroxy-4-pyrone	4940-11-8  225-582-5	Acute Tox. 4; H302	>= 1 - < 10
Oxybenzone	131-57-7  205-031-5  01-2119976330-39-0000	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 <hr/> M-Factor (Acute aquatic toxicity): 1	>= 2,5 - < 10
2-Hydroxy-3-methylcyclopent-2-enone	80-71-7 765-70-8  201-303-2  01-2120779409-38	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 1 - < 3
Cinnamaldehyde	104-55-2  203-213-9  01-2119935242-45 01-2119935242-45 01-2119935242-45	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317	>= 0,1 - < 1
[3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-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 <hr/> M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,025 - < 0,1

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Substances with a workplace exposure limit :			
ethyl acetate	141-78-6	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 0,1 - < 1
	205-500-4		
	607-022-00-5 01-2119475103-46		
	01-2119475103-46		

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 respiration.
- 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.  
Causes serious eye irritation.
- First aider needs to protect himself.

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### 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.

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## 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.

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### 6.4 Reference to other sections

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

## 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. When using do not smoke.  
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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ethyl acetate	141-78-6	MAK	200 ppm 750 mg/m <sup>3</sup>	DFG
		TWA	200 ppm 734 mg/m <sup>3</sup>	91/322/EEC

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		STEL	400 ppm 1.468 mg/m <sup>3</sup>	91/322/EEC
		STEL	400 ppm 1.468 mg/m <sup>3</sup>	EU SCOEL
		TWA	200 ppm 734 mg/m <sup>3</sup>	EU SCOEL
		AGW	200 ppm 730 mg/m <sup>3</sup>	DE TRGS 900

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Oxybenzone	Workers	Inhalation	Long-term systemic effects	27,7 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	39 mg/kg bw/day
	Consumer use	Inhalation	Long-term systemic effects	6,8 mg/m <sup>3</sup>
	Consumer use	Skin contact	Long-term systemic effects	20 mg/kg bw/day
	Consumer use	Oral	Long-term systemic effects	2 mg/kg bw/day
Ethyl butyrate	Workers	Inhalation	Long-term systemic effects	220,2 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	31,2 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	11,2 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12,4 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Oxybenzone	Fresh water	0,00067 mg/l
	Fresh water sediment	0,066 mg/kg dry weight (d.w.)
	Marine water	0,000067 mg/l
	Marine sediment	0,007 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0,013 mg/kg dry weight (d.w.)
Ethyl butyrate	Fresh water	0,131 mg/l
	Fresh water sediment	0,762 mg/kg dry weight (d.w.)
	Marine water	0,0131 mg/l
	Marine sediment	0,0762 mg/kg dry weight (d.w.)
	Sewage treatment plant	23,6 mg/l
	Soil	75,6 mg/kg dry weight (d.w.)

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### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

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).  
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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : clear liquid

Colour : light yellow to yellow

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.

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

Flash point : 100 °C

Decomposition temperature : not determined

pH : not determined

Viscosity

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Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Partition coefficient: n-octanol/water : not determined

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

Relative density : not determined

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 : Lower than the evaporation rate of butyl acetate = 1

Molecular weight : not determined

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## 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

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

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### 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:

##### **benzyl benzoate:**

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

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

##### **3-Ethoxy-4-hydroxybenzaldehyde:**

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.160 mg/kg  
Method: OECD Test Guideline 401

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

##### **2-Ethyl-3-hydroxy-4-pyrone:**

Acute oral toxicity : LD50 Oral (Rat): ca. 1.220 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

##### **Oxybenzone:**

Acute oral toxicity : LD50 (Rat, male and female): > 12.800 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute dermal toxicity : LD50 (Rabbit, male): > 16.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

##### **2-Hydroxy-3-methylcyclopent-2-enone:**

Acute oral toxicity : LD50 Oral (Rat, female): ca. 1.067,4 mg/kg  
Method: OECD Test Guideline 401

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GLP: yes

### **Cinnamaldehyde:**

Acute oral toxicity : LD50 (Rat): 2.500 mg/kg

Acute dermal toxicity : LD50 (Rat): 1.100 mg/kg

### **ethyl acetate:**

Acute inhalation toxicity : LC50 (Rat, male and female): > 6000 ppm  
Exposure time: 6 h  
Test atmosphere: vapour  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit, male): > 20.000 mg/kg  
GLP: no

### **Skin corrosion/irritation**

Not classified based on available information.

### **Components:**

#### **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 %

#### **3-Ethoxy-4-hydroxybenzaldehyde:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes  
Dose : 500 mg  
Concentration : 100 %

#### **2-Ethyl-3-hydroxy-4-pyrone:**

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

Species : Rabbit  
Result : No skin irritation  
Concentration : 0,5 %

#### **Oxybenzone:**

Species : Rabbit

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Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : no  
Dose : 0,5 g  
Concentration : 100 %

### 2-Hydroxy-3-methylcyclopent-2-enone:

Species : reconstructed human epidermis (RhE)  
Exposure time : 1 h  
Method : OECD Test Guideline 439  
Result : No skin irritation  
GLP : yes

### Cinnamaldehyde:

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

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Components:

#### benzyl benzoate:

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

#### 3-Ethoxy-4-hydroxybenzaldehyde:

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

#### 2-Ethyl-3-hydroxy-4-pyrone:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : no  
Dose : 5  
Concentration : 100 %

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### **Oxybenzone:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Mild eye irritation  
GLP : no  
Concentration : 100 %

### **2-Hydroxy-3-methylcyclopent-2-enone:**

Species : Bovine cornea  
Method : OECD Test Guideline 437  
Result : Risk of serious damage to eyes.  
GLP : yes  
Concentration : 100 %

### **Cinnamaldehyde:**

Species : Rabbit  
Exposure time : 24 h  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.  
GLP : yes  
Concentration : 100 %

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **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)

#### **3-Ethoxy-4-hydroxybenzaldehyde:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : No sensitizing effect.  
GLP : yes  
Concentration : 50 %  
solvents : Acetone/Olive oil (4:1)

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### **2-Ethyl-3-hydroxy-4-pyrone:**

Test Type : Maximisation Test  
Result : No sensitizing effect.

### **Oxybenzone:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : No sensitizing effect.  
GLP : yes  
Concentration : 50 %  
solvents : N,N-Dimethylformamide

### **2-Hydroxy-3-methylcyclopent-2-enone:**

Test Type : Direct Peptide Reactivity Assay (DPRA)  
Species : Humans  
Method : OECD Test Guideline 442C  
Result : Sensitizing effect.  
GLP : yes

### **Cinnamaldehyde:**

Test Type : Klecak Open Epicutaneous test  
Species : Guinea pig  
Result : Sensitizing effect.  
Concentration : 3 %

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
Concentration : 3,1 %  
solvents : Acetone/Olive oil (4:1)

### **ethyl acetate:**

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : No sensitizing effect.  
GLP : no

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **3-Ethoxy-4-hydroxybenzaldehyde:**

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

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Result: negative  
GLP: No information available.

### 2-Ethyl-3-hydroxy-4-pyrone:

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: positive  
GLP: no

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Mouse (female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
GLP: no

### Oxybenzone:

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: V79 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: V79 cells  
Method: OECD 476  
Result: negative  
GLP: yes

### 2-Hydroxy-3-methylcyclopent-2-enone:

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

### Cinnamaldehyde:

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

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Test Type: In vitro Mammalian Chromosome Aberration Test  
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  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

### ethyl acetate:

Genotoxicity in vitro : 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: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: No information available.

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

### 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:

#### Oxybenzone:

Species	:	Rat, male and female
NOAEL	:	411 mg/kg bw/day
Application Route	:	Oral
Exposure time	:	91 d

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Method : OECD Test Guideline 408  
GLP : yes

### 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.

#### Further information

##### Components:

##### ethyl acetate:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

##### Components:

##### 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

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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

### 3-Ethoxy-4-hydroxybenzaldehyde:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 87,6 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: No information available.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 120 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 47 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

### Oxybenzone:



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Toxicity to fish : LC50 (*Oryzias latipes* (Japanese medaka)): 3,8 mg/l  
Exposure time: 96 h  
Test Type: semi-static test



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Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,87 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,67 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,18 mg/l  
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 microorganisms : EC20 (Activated sludge): > 100 mg/l  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: EEC L133  
GLP: no

### 2-Hydroxy-3-methylcyclopent-2-enone:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 43,74 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)): 30,05 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

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### **Cinnamaldehyde:**

- Toxicity to fish : LC50 (Zebrafish (Brachydanio rerio)): 2,35 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.  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,21 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: no  
Remarks: Weight of Evidence
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 31,6 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: no  
Remarks: Weight of Evidence
- Toxicity to microorganisms : EC50 (Activated sludge): 71 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Method: ISO 8192  
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:**

- 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

### **ethyl acetate:**

- Toxicity to fish : LC0 (Pimephales promelas (fathead minnow)): 230 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
GLP: No information available.
- Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate
-

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Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC0 (*Pseudomonas putida*): 650 mg/l

### 12.2 Persistence and degradability

#### Components:

##### **benzyl benzoate:**

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

##### **3-Ethoxy-4-hydroxybenzaldehyde:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

##### **2-Ethyl-3-hydroxy-4-pyrone:**

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

##### **Oxybenzone:**

Biodegradability : Test Type: MITI test, (BOD/COD):  
Result: not readily biodegradable (only 10 day window failed)  
Biodegradation: 62 %  
Exposure time: 28 d  
Method: Directive 67/548/EEC Annex V, C.4.D.  
GLP: no

##### **2-Hydroxy-3-methylcyclopent-2-enone:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 74 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

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GLP: yes

### **Cinnamaldehyde:**

Biodegradability : Test Type: Modified OECD screening test  
Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD 301E  
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

### **ethyl acetate:**

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO<sub>2</sub>):  
Result: Readily biodegradable.  
Biodegradation: 93,9 %  
Exposure time: 28 d  
Method: OECD 301B

## 12.3 Bioaccumulative potential

### **Components:**

#### **benzyl benzoate:**

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

#### **3-Ethoxy-4-hydroxybenzaldehyde:**

Partition coefficient: n-octanol/water : log Pow: 1,58 (25 °C)  
Method: OECD Test Guideline 107  
GLP: No information available.

#### **2-Ethyl-3-hydroxy-4-pyrone:**

Partition coefficient: n-octanol/water : log Pow: 2,9 (25 °C)  
Method: OECD Test Guideline 117  
GLP: no

#### **Oxybenzone:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 36 - 158  
Method: OECD Test Guideline 305

Partition coefficient: n- : log Pow: 3,45 (40 °C)

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octanol/water

### 2-Hydroxy-3-methylcyclopent-2-enone:

Partition coefficient: n-octanol/water : log Pow: 0,4 (25 °C)  
Method: OECD Test Guideline 117  
GLP: no

### Cinnamaldehyde:

Partition coefficient: n-octanol/water : log Pow: 2,107 (25 °C)  
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

### ethyl acetate:

Partition coefficient: n-octanol/water : log Pow: 0,68 (25 °C)  
pH: 7  
Method: OPPTS 830.7560  
GLP: no

## 12.4 Mobility in soil

### Components:

#### benzyl benzoate:

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

#### 3-Ethoxy-4-hydroxybenzaldehyde:

Distribution among environmental compartments : log Koc: 3,092  
Method: OECD Test Guideline 106

#### Oxybenzone:

Distribution among environmental compartments : log Koc: 2,98  
Remarks: calculated

#### Cinnamaldehyde:

Distribution among environmental compartments : Adsorption/Soil  
Medium: Soil  
log Koc: 1,958  
Method: OECD 121

## 12.5 Results of PBT and vPvB assessment

### Product:

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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.

### **Components:**

#### **Oxybenzone:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 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.

### 12.7 Other adverse effects

#### **Product:**

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.

#### **Components:**

#### **Oxybenzone:**

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

#### **2-Hydroxy-3-methylcyclopent-2-enone:**

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

#### **Cinnamaldehyde:**

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

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Product

: The product should not be allowed to enter drains, water



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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.

---

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
IATA	:	UN 3082

#### 14.2 UN proper shipping name

ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE, ALPHA-CEDRENE)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE, ALPHA-CEDRENE)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE, ALPHA-CEDRENE)
IATA	:	Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE, 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

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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  
Packing group : III  
Labels : Miscellaneous

### IATA\_P (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, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

Juniper, Juniperus mexicana, ext.  
(Number on list 3)  
Anisaldehyde (Number on list 3)

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ethyl acetate (Number on list 40, 3)  
benzyl benzoate (Number on list 3)  
Ethyl butyrate (Number on list 40, 3)  
Cinnamaldehyde (Number on list 3)  
2(3H)-Furanone, dihydro-5-octyl-  
(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
E1	ENVIRONMENTAL HAZARDS	100 t	200 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: 0,06 %  
  
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: 2,95 %

### Other regulations:

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

No data available

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### SECTION 16: Other information

#### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful 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.  
H336 : May cause drowsiness or dizziness.  
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.

#### 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 Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT SE : Specific target organ toxicity - single exposure  
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 / STEL : Short term exposure limit  
91/322/EEC / TWA : Time weighted average  
DE TRGS 900 / AGW : Exposure limit(s):  
DFG / MAK : Maximum allowable concentration:  
EU SCOEL / STEL : Short term exposure limit  
EU SCOEL / TWA : Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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 Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - Interna-

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tional 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; TECI - 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:

Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

#### Classification procedure:

Calculation method
Calculation method
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*