



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

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

#### 1.1 Product identifier

Trade name **California Scents Palms Route 66**  
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses Consumer use: Air Freshener

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

Energizer Manufacturing, Inc.  
25225 Detroit Rd.  
Westlake OH 44145  
United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)  
Website: <http://data.energizer.com>

Energizer Trading Ltd.  
Sword House, Totteridge Road, High Wycombe, HP13 6DG, UK

Telephone: +44(0)8000353376  
e-mail: [ConsumerServiceEU@energizer.com](mailto:ConsumerServiceEU@energizer.com)

#### 1.4 Emergency telephone number

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

Poison centre		
Name	Postal code/city	Telephone
UK poison centre		Product information has been submitted to the UK National Poisons Information Service (NPIS) and is accessible to medical health professionals.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.4S	skin sensitisation	1	Skin Sens. 1	H317
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

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

- Signal word warning

- Pictograms

GHS07, GHS09



- Hazard statements

H317

May cause an allergic skin reaction.

H411

Toxic to aquatic life with long lasting effects.

- Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P261

Avoid breathing mist/vapours.

P302+P352

IF ON SKIN: Wash with plenty of water.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P501

Dispose of contents/container in accordance with national regulations.

#### 2.2.1.7- Hazardous ingredients for labelling

Methyl Ionone, dihydro pentamethylindanone, Linalool, Coumarin

Labelling of packages where the contents do not exceed 125 ml

- Signal word warning

- Hazard pictogram(s)

Warning.

GHS07, GHS09



- Hazard statements

H317

May cause an allergic skin reaction.

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### - Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P261 Avoid breathing mist/vapours.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with national regulations.

- Contains Methyl Ionone, dihydro pentamethylindanone, Linalool, Coumarin

### 2.3 Other hazards

Results of PBT and vPvB assessment

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





## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

Name of substance	CAS No	Wt%	Classification acc. to GHS	Pictograms
Methyl Ionone	127-51-5	1 - <5	Aquatic Chronic 2 / H411	
21145-77-7	21145-77-7	1 - <5	Acute Tox. 4 / H302 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	 
dihydro pentamethylindanone	33704-61-9	1 - <5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Aquatic Chronic 2 / H411	 
Linalyl acetate	115-95-7	<1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Hexamethylindanopyran	1222-05-5	<1	Aquatic Chronic 1 / H410	
Coumarin	91-64-5	<1	Acute Tox. 4 / H302 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412	
Linalool	78-70-6	<1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	



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## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Name of substance	CAS No	Specific Conc. Limits	M-Factors	ATE	Exposure route
21145-77-7	21145-77-7			920 mg/kg	oral
Coumarin	91-64-5			500 mg/kg	oral

For full text of abbreviations: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

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

##### Following inhalation

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

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

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

##### Following ingestion

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

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

Symptoms and effects are not known to date.

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

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

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



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## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Hazardous combustion products  
Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

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

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

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

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

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

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

Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### Advice on general occupational hygiene

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

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

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
GB	cellulose	9004-34-6	WEL		10		20			i	EH40/2005
GB	cellulose	9004-34-6	WEL		4					r	EH40/2005

#### Notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur

i

inhalable fraction

r

respirable fraction

STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Methyl Ionone	127-51-5	DNEL	8.22 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects



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## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Methyl Ionone	127-51-5	DNEL	0.375 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
dihydro penta-methylindanone	33704-61-9	DNEL	1.47 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
dihydro penta-methylindanone	33704-61-9	DNEL	0.42 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
dihydro penta-methylindanone	33704-61-9	DNEL	5,510 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Hexamethylindanopyran	1222-05-5	DNEL	22 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hexamethylindanopyran	1222-05-5	DNEL	60 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	6.78 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	0.79 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.75 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	236.2 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Linalyl acetate	115-95-7	DNEL	236.2 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Linalool	78-70-6	DNEL	2.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Methyl Ionone	127-51-5	PNEC	1.43 µg/l	aquatic organisms	freshwater	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	0.143 µg/l	aquatic organisms	marine water	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	0.443 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	44.3 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	87.8 µg/kg	terrestrial organisms	soil	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	0.004 mg/l	aquatic organisms	freshwater	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	99.1 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	9.91 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
dihydro penta-methylindanone	33704-61-9	PNEC	17.4 µg/kg	terrestrial organisms	soil	short-term (single instance)
Hexamethylindanopyran	1222-05-5	PNEC	4.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Hexamethylindanopyran	1222-05-5	PNEC	0.44 µg/l	aquatic organisms	marine water	short-term (single instance)
Hexamethylindanopyran	1222-05-5	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexamethylindanopyran	1222-05-5	PNEC	2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexamethylindanopyran	1222-05-5	PNEC	0.394 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexamethylindanopyran	1222-05-5	PNEC	0.31 mg/kg	terrestrial organisms	soil	short-term (single instance)





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## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Coumarin	91-64-5	PNEC	0.056 mg/l	aquatic organisms	water	intermittent release
Coumarin	91-64-5	PNEC	19 µg/l	aquatic organisms	freshwater	short-term (single instance)
Coumarin	91-64-5	PNEC	1.9 µg/l	aquatic organisms	marine water	short-term (single instance)
Coumarin	91-64-5	PNEC	6.4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Coumarin	91-64-5	PNEC	0.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.018 mg/kg	terrestrial organisms	soil	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.11 mg/l	aquatic organisms	water	intermittent release
Linalyl acetate	115-95-7	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.609 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.061 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.115 mg/kg	terrestrial organisms	soil	short-term (single instance)
Linalool	78-70-6	PNEC	7.8 mg/kg	aquatic organisms	water	short-term (single instance)
Linalool	78-70-6	PNEC	2 mg/l	aquatic organisms	water	intermittent release
Linalool	78-70-6	PNEC	0.2 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0.02 mg/l	aquatic organisms	marine water	short-term (single instance)



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2.22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

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

- Type of material

PVA: polyvinyl alcohol, Nitrile

- Material thickness

>0.5 mm

- Breakthrough times of the glove material

>120 minutes (permeation: level 4)

- Other protection measures

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### SECTION 9: Physical and chemical properties

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

Physical state	solid
Colour	various
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	266.4 °C at 967.1 hPa
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	259 °C
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	not relevant
Solubility(ies)	not determined

#### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	0.22 Pa at 20 °C
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## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### Density and/or relative density

Density	not determined
Vapour density	this information is not available
Relative vapour density	Information on this property is not available

Particle characteristics	no data available
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### 9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards):
Other safety characteristics	there is no additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

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

#### Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

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



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

##### Classification procedure

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

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

##### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
21145-77-7	21145-77-7	oral	920 mg/kg
Coumarin	91-64-5	oral	500 mg/kg

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

##### Respiratory or skin sensitisation

May cause an allergic skin reaction.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

##### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

##### Specific target organ toxicity - single exposure

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

##### Specific target organ toxicity - repeated exposure

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

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### 11.2 Information on other hazards

There is no additional information.

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
dihydro pentamethylindanone	33704-61-9	EC50	>1,000 mg/l	microorganisms	3 h
Hexamethylindanopyran	1222-05-5	LC50	>0.14 mg/l	fish	36 d
Hexamethylindanopyran	1222-05-5	EC50	0.131 mg/l	aquatic invertebrates	5.5 d
Hexamethylindanopyran	1222-05-5	NOEC	0.068 mg/l	fish	36 d
Hexamethylindanopyran	1222-05-5	LOEC	0.14 mg/l	fish	36 d
Hexamethylindanopyran	1222-05-5	growth (EbCx) 10%	0.044 mg/l	aquatic invertebrates	5.5 d
Coumarin	91-64-5	NOEC	0.191 mg/l	fish	30 d
Linalyl acetate	115-95-7	LC50	11.14 mg/l	fish	20 h
Linalyl acetate	115-95-7	NOEC	>25.7 mg/l	microorganisms	28 d
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
Linalool	78-70-6	growth (EbCx) 10%	>100 mg/l	microorganisms	3 h

#### 12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Methyl Ionone	127-51-5	oxygen depletion	42.51 %	28 d		ECHA
dihydro pentamethylindanone	33704-61-9	oxygen depletion	0 %	28 d		ECHA

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hexamethylindanopyran	1222-05-5	carbon dioxide generation	2 %	28 d		ECHA
Coumarin	91-64-5	oxygen depletion	87 %	14 d		ECHA
Linalyl acetate	115-95-7	oxygen depletion	≥0 – ≤10 %	1 d		ECHA
Linalool	78-70-6	oxygen depletion	40.9 %	5 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Methyl Ionone	127-51-5		4.288 (pH value: 4.7, 25 °C)	
21145-77-7	21145-77-7		5.7 (24 °C)	
dihydro pentamethylindanone	33704-61-9	82	4.2 (20 °C)	
Hexamethylindanopyran	1222-05-5	1,635	5.3 (pH value: 7, 25 °C)	
Coumarin	91-64-5		1.39 (pH value: 7, 25 °C)	
Linalyl acetate	115-95-7	174	3.9 (25 °C)	
Linalool	78-70-6		2.9 (pH value: 7, 20 °C)	

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

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

### 12.7 Other adverse effects

Data are not available.



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

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

Waste treatment of containers/packageings

It is a dangerous waste; only packageings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

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

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID/ADN	3077
IMDG-Code	3077
ICAO-TI	3077

#### 14.2 UN proper shipping name

ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
ICAO-TI	Environmentally hazardous substance, solid, n.o.s.
Technical name (hazardous ingredients)	Methyl Ionone, 21145-77-7

#### 14.3 Transport hazard class(es)

ADR/RID/ADN	9
IMDG-Code	9
ICAO-TI	9

#### 14.4 Packing group

ADR/RID/ADN	III
IMDG-Code	III
ICAO-TI	III

#### 14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	Methyl Ionone, 21145-77-7



## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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



DOT: 171.4(2)

ADR: SP 375



IMDG: 2.10.2.7

IATA: special provision A197, DOT

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

Particulars in the transport document	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (contains: Methyl Ionone, 21145-77-7), 9, III, (-)
Classification code	M7
Danger label(s)	9, fish and tree
 	
Environmental hazards	YES (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90
Emergency Action Code	2Z

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Particulars in the shipper's declaration	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (contains: Methyl Ionone, 21145-77-7), 9, III
Marine pollutant	YES (hazardous to the aquatic environment) (Methyl Ionone)
Danger label(s)	9, fish and tree
 	



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Special provisions (SP)	274, 335, 966, 967, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
EmS	F-A, S-F
Stowage category	A

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

Particulars in the shipper's declaration	UN3077, Environmentally hazardous substance, solid, n.o.s., (contains: Methyl Ionone, 21145-77-7), 9, III
Environmental hazards	YES (hazardous to the aquatic environment)
Danger label(s)	9, fish and tree



Special provisions (SP)	A97, A158, A179, A197
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Linalyl acetate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Hexamethylindanopyran	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Linalool	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Methyl Ionone	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### Dangerous substances with restrictions (REACH, Annex XVII)

Name of substance	Name acc. to inventory	CAS No	Restriction	No
dihydro pentamethylindanone	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3

#### Legend

R3

1. Shall not be used in:
  - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
  - tricks and jokes,
  - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
  - can be used as fuel in decorative oil lamps for supply to the general public, and,
  - present an aspiration hazard and are labelled with R65 or H304,
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
  - (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
  - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
  - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

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

none of the ingredients are listed

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

none of the ingredients are listed

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

none of the ingredients are listed

### Water Framework Directive (WFD)

none of the ingredients are listed



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### National inventories

Country	Inventory	Status
AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

#### Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### SECTION 16: Other information

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
4.1	Following skin contact: Rinse skin with water/shower.	Following skin contact: Wash with plenty of soap and water.	yes
5.2	Special hazards arising from the substance or mixture: Deposited combustible dust has considerable explosion potential.	Special hazards arising from the substance or mixture	yes
7.1	- Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.	- Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.	yes
7.2	- Ventilation requirements: Use local and general ventilation.		yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
8.2	Hand protection: Wear protective gloves.	Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.	yes
8.2		Type of material: PVA: polyvinyl alcohol, Nitrile	yes
8.2		Material thickness: >0.5 mm	yes



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.2		Breakthrough times of the glove material: >120 minutes (permeation: level 4)	yes
8.2	Respiratory protection: Particulate filter device (EN 143).	Respiratory protection: In case of inadequate ventilation wear respiratory protection.	yes
9.1	Appearance		yes
9.1	Other safety parameters		yes
9.1		Lower and upper explosion limit: not determined	yes
9.1	Evaporation rate: not determined		yes
9.1	Explosion limits of dust clouds: not determined		yes
9.1	Viscosity: not relevant (solid matter)		yes
9.1	Explosive properties: none		yes
9.1	Oxidising properties: none		yes
9.1		Decomposition temperature: not relevant	yes
9.1		Kinematic viscosity: not relevant	yes
9.1		Density and/or relative density	yes
9.1		Particle characteristics: no data available	yes
9.2	other information: there is no additional information	Other information	yes
9.2		Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards):	yes
9.2		Other safety characteristics: there is no additional information	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
11.2		Information on other hazards: There is no additional information.	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes
12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
12.7	Other adverse effects	Other adverse effects: Data are not available.	yes
14.1	UN number: 3077	UN number	yes
14.1		ADR/RID/ADN: 3077	yes
14.1		IMDG-Code: 3077	yes
14.1		ICAO-TI: 3077	yes
14.2	UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	UN proper shipping name	yes
14.2		ADR/RID/ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	yes
14.2		IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	yes
14.2		ICAO-TI: Environmentally hazardous substance, solid, n.o.s.	yes
14.3	Class: 9 (environmentally hazardous)		yes
14.3		ADR/RID/ADN: 9	yes
14.3		IMDG-Code: 9	yes
14.3		ICAO-TI: 9	yes



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.4	Packing group: III (substance presenting low danger)	Packing group	yes
14.4		ADR/RID/ADN: III	yes
14.4		IMDG-Code: III	yes
14.4		ICAO-TI: III	yes
14.7	UN number: 3077		yes
14.7	Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	UN number: 3077		yes
14.7	Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	Marine pollutant: yes (hazardous to the aquatic environment)	Marine pollutant: yes (hazardous to the aquatic environment) (Methyl Ionone)	yes
14.7	UN number: 3077		yes
14.7	Proper shipping name: Environmentally hazardous substance, solid, n.o.s.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes





# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	European Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

Abbr.	Descriptions of used abbreviations
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit



# Safety Data Sheet

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

## California Scents Palms Route 66

Version number: GHS 4.0  
Replaces version of: 2020-09-17 (GHS 3)

Revision: 2020-12-15

### Key literature references and sources for data

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

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

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

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

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

Code	Text
H302	Harmful if swallowed.
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.

### Disclaimer

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