

# SAFETY DATA SHEET

## Fragrance 49359476

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

#### 1.1 Product identifier

**Product code** : Fragrance 49359476

**Product name** : HOT WAFFLE CONE

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

Fragrance. Restricted to professional users. Industrial use only.

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

**Supplier's details** : drom fragrances GmbH & Co. KG  
Oberdiller Straße 18  
tel. +49 89 74425-0  
fax. +49 89 7934966  
D-82065 Baierbrunn

**e-mail address of person responsible for this SDS** : safety@drom.com

#### 1.4 Emergency telephone number

##### National advisory body/Poison Center

**Telephone number** : www.rshm.gov.tr

##### Supplier

**Emergency telephone number (with hours of operation)** : +49 89 74425 288  
9h - 17h (Mo - Fr)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319

Skin Sens. 1, H317

Aquatic Chronic 2, H411

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : H319 - Causes serious eye irritation.  
H317 - May cause an allergic skin reaction.  
H411 - Toxic to aquatic life with long lasting effects.

##### Precautionary statements

**Prevention** : P280 - Wear protective gloves. Wear eye or face protection.  
P273 - Avoid release to the environment.

**Response** : P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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### SECTION 2: Hazards identification

<b>Storage</b>	: Not applicable.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	: 2-benzylideneheptanal 3-ethoxy-4-hydroxybenzaldehyde piperonal $\alpha$ -hexylcinnamaldehyde
<b>Supplemental label elements</b>	: Not applicable.

#### 2.3 Other hazards

**Other hazards which do not result in classification** : None known.

### SECTION 3: Composition/information on ingredients

**3.1 Substances** : Not applicable.

**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
2-benzylideneheptanal	EC: 204-541-5 CAS: 122-40-7	15.00	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
3-ethoxy-4-hydroxybenzaldehyde	REACH #: 01-2119958961-24 EC: 204-464-7 CAS: 121-32-4	10.00	Eye Irrit. 2, H319	[1]
piperonal	EC: 204-409-7 CAS: 120-57-0	5.02	Skin Sens. 1B, H317	[1]
2-ethyl-3-hydroxy-4-pyrone	EC: 225-582-5 CAS: 4940-11-8	5.00	Acute Tox. 4, H302	[1]
$\alpha$ -hexylcinnamaldehyde	REACH #: 01-2119533092-50 EC: 202-983-3 EC: 639-566-4 CAS: 101-86-0 CAS: 165184-98-5	5.00	Skin Sens. 1B, H317  Aquatic Acute 1, H400 Aquatic Chronic 2, H411	[1]
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	REACH #: 01-2119529224-45  EC: 248-908-8 CAS: 28219-61-6	3.00	Eye Irrit. 2, H319  Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
benzyl acetate	REACH #: 01-2119638272-42 EC: 205-399-7 CAS: 140-11-4	3.00	Aquatic Chronic 3, H412	[1]
<b>See Section 16 for the full text of the H statements declared above.</b>				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

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### SECTION 3: Composition/information on ingredients

- [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit  
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII  
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII  
 [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

**Hydrocarbon. (Content)** : 0%

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

##### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.
- Over-exposure signs/symptoms** : Not available.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

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

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

#### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2 Environmental precautions

- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

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### SECTION 6: Accidental release measures

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

### SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

#### Seveso Directive - Reporting thresholds (in tonnes)

##### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
E2: Hazardous to the aquatic environment - Chronic 2	200	500
C9ii: Toxic for the environment	200	500

#### 7.3 Specific end use(s)

- Recommendations** : Industrial use only.

### SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

##### Occupational exposure limits

No exposure limit value known.

##### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
α-hexylcinnamaldehyde	DNEL	Short term Dermal	0.525 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Short term Inhalation	6.28 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	18.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	0.078 mg/	Workers	Systemic

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## SECTION 8: Exposure controls/personal protection

		Inhalation	m <sup>3</sup>		
	DNEL	Long term Dermal	0.525 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Inhalation	0.019 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term Inhalation	4.7 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Long term Dermal	9 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Dermal	0.079 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Short term Dermal	0.079 mg/kg bw/day	Consumers	Local
	DNEL	Long term Oral	0.056 mg/kg bw/day	Consumers	Systemic
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	DNEL	Short term Oral	3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	6 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	1.4 mg/kg bw/day	Workers	-
	DNEL	Short term Inhalation	7 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	7 mg/m <sup>3</sup>	Workers	Systemic
benzyl acetate	DNEL	Long term Inhalation	21.9 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	43.8 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	6.25 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	12.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5.5 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term Inhalation	11 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Dermal	3.125 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Dermal	6.25 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	3.125 mg/kg bw/day	Consumers	Systemic

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**SECTION 8: Exposure controls/personal protection**

	DNEL	Short term Oral	6.25 mg/ kg bw/day	Consumers	Systemic
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**PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
3-ethoxy-4-hydroxybenzaldehyde	Fresh water	0.118 mg/l	-
	Marine water	0.0118 mg/l	-
	Soil	2.923 mg/kg dwt	-
	Fresh water	15 mg/kg dwt	-
	Marine water	1.5 mg/kg dwt	-
	Sewage Treatment Plant	10 mg/l	-
α-hexylcinnamaldehyde	Fresh water	3 mg/l	-
	Marine water	0.003 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	4.7 mg/l	-
	Marine water sediment	4.77 mg/l	-
	Soil	9.51 mg/l	-
	Secondary Poisoning	6.6 mg/l	-
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Fresh water	0.63 µg/l	-
	Marine water	0.063 µg/l	-
	Fresh water sediment	0.04379 mg/kg dwt	-
	Marine water sediment	0.004379 mg/kg wwt	-
	Soil	0.00839 mg/kg	-
benzyl acetate	Fresh water	0.004 mg/l	-
	Marine water	0.0004 mg/l	-
	Intermittent release	0.04 mg/l	-
	Sewage Treatment Plant	8.55 mg/l	-
	Fresh water sediment	0.114 mg/kg	-
	Marine water sediment	0.0114 mg/kg	-
	Soil	0.0205 mg/kg	-

**8.2 Exposure controls****Appropriate engineering controls**

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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### SECTION 8: Exposure controls/personal protection

#### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

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

##### Appearance

- Physical state** : Liquid.
- Color** : Characteristic.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: 110°C
- Evaporation rate** : Not available.
- Upper/lower flammability or explosive limits** : Not available.
- Vapor pressure** : 0.04 hPa
- Vapor density** : Not available.
- Density** : 1.038 to 1.048 g/cm<sup>3</sup> [20°C]
- Solubility in water** : Non water-soluble liquid

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### SECTION 9: Physical and chemical properties

<b>Partition coefficient: n-octanol/ water</b>	: Not available.	
<b>Auto-ignition temperature</b>	: Not available.	
<b>Decomposition temperature</b>	: Not available.	
<b>Viscosity</b>	: Kinematic (40°C): <0.07 cm <sup>2</sup> /s	(Estimated.)
<b>Explosive properties</b>	: Not available.	
<b>Oxidizing properties</b>	: Not available.	

#### 9.2 Other information

No additional information.

### SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: No specific data.
<b>10.5 Incompatible materials</b>	: No specific data.
<b>10.6 Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-benzylideneheptanal	LD50 Oral	Rat	3730 mg/kg	-
3-ethoxy-4-hydroxybenzaldehyde	LD50 Dermal	Rabbit	>7940 mg/kg	-
piperonal	LD50 Oral	Rat - Male, Female	>3160 mg/kg	-
	LD50 Dermal	Rat	>5000 mg/kg	-
2-ethyl-3-hydroxy-4-pyrone	LD50 Oral	Rat	2700 mg/kg	-
	LD50 Dermal	Rabbit	>5 g/kg	-
α-hexylcinnamaldehyde	LD50 Oral	Rat	1150 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>2100 mg/m <sup>3</sup>	8 hours
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	LD50 Oral	Rat	3100 mg/kg	-
	LD50 Dermal	Rabbit	4600 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

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**SECTION 11: Toxicological information**

benzyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	2490 mg/kg	-

**Acute toxicity estimates**

Route	ATE value
Oral	23000 mg/kg

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
piperonal	Skin - Irritant	Mammal - species unspecified	-	-	-

**Sensitization**

Product/ingredient name	Route of exposure	Species	Result
3-ethoxy-4-hydroxybenzaldehyde	skin	Mouse	Not sensitizing
$\alpha$ -hexylcinnamaldehyde	skin	Mouse	Sensitizing

**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
$\alpha$ -hexylcinnamaldehyde	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative

**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Long term exposure**

- Potential immediate effects** : Not available.

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### SECTION 11: Toxicological information

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
3-ethoxy-4-hydroxybenzaldehyde	Sub-chronic NOAEL Oral	Rat - Male, Female	500 mg/kg	-
α-hexylcinnamaldehyde	Sub-acute NOAEL Oral	Rat	150 mg/kg	-
	Sub-acute LOAEL Dermal	Rat	125 mg/kg	-

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Interactive effects** : Not available.

#### Toxicokinetics

**Absorption** : Not available.

**Distribution** : Not available.

**Metabolism** : Not available.

**Elimination** : Not available.

**Other information** : Not available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-benzylideneheptanal	Acute LC50 3 mg/l	Fish	96 hours
3-ethoxy-4-hydroxybenzaldehyde	Acute EC50 130 mg/l	Daphnia - Daphnia magna	24 hours
	Acute LC50 87600 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l	Micro-organism	-
2-ethyl-3-hydroxy-4-pyrone	Acute EC50 27 mg/l	Daphnia	48 hours
α-hexylcinnamaldehyde	Acute EC50 0.247 mg/l	Daphnia	48 hours
	Acute LC50 1.7 mg/l	Fish	96 hours
	Chronic EC10 0.107 mg/l Fresh water	Daphnia	21 days
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Acute EC50 0.6 mg/l	Algae	96 hours
	Acute EC50 0.79 mg/l	Daphnia	48 hours
	Acute LC50 0.78 mg/l	Fish	96 hours
benzyl acetate	Acute EC50 17 mg/l	Daphnia	48 hours
	Acute EC50 855 mg/l	Micro-organism	3 hours
	Acute IC50 114 mg/l	Algae	72 hours

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## SECTION 12: Ecological information

	Acute LC50 4000 µg/l Fresh water	Fish - Oryzias latipes - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 52 mg/l	Algae	72 hours

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-benzylideneheptanal	OECD 301F Ready Biodegradability - Manometric Respirometry Test	95 % - Readily - 28 days	-	-
3-ethoxy-4-hydroxybenzaldehyde	OECD 301F Ready Biodegradability - Manometric Respirometry Test	84 % - Readily - 28 days	-	Activated sludge
piperonal	OECD 301F Ready Biodegradability - Manometric Respirometry Test	82 % - Readily - 28 days	-	Activated sludge
2-ethyl-3-hydroxy-4-pyrone	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	>60 % - Readily - 28 days	-	-
α-hexylcinnamaldehyde	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97 % - Readily - 28 days	-	-
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	OECD 301D Ready Biodegradability - Closed Bottle Test	5 % - Not readily - 28 days	-	-
benzyl acetate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	92 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-benzylideneheptanal	-	-	Readily
3-ethoxy-4-hydroxybenzaldehyde	-	-	Readily
piperonal	-	-	Readily
2-ethyl-3-hydroxy-4-pyrone	-	-	Readily

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**SECTION 12: Ecological information**

$\alpha$ -hexylcinnamaldehyde	-	-	Readily
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	-	-	Not readily
benzyl acetate	-	-	Readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
3-ethoxy-4-hydroxybenzaldehyde	1.58	-	low
piperonal	1.05	-	low
2-ethyl-3-hydroxy-4-pyrone	0.63	-	low
$\alpha$ -hexylcinnamaldehyde	5.3	6000	high
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	4.3	667	high
benzyl acetate	1.49	8	low

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**13.1 Waste treatment methods****Product**

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

**European waste catalogue (EWC)**

Waste code	Waste designation
16 03 05*	organic wastes containing dangerous substances

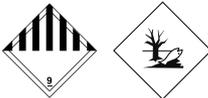
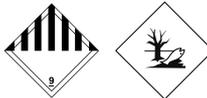
**Packaging**

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### SECTION 13: Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### SECTION 14: Transport information

	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-benzylideneheptanal, alpha-hexylcinnamaldehyde)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-benzylideneheptanal, alpha-hexylcinnamaldehyde)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-benzylideneheptanal, alpha-hexylcinnamaldehyde)
<b>14.3 Transport hazard class(es)</b>	9 	9 	9 
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>	Yes.	Marine pollutant	Yes.
<b>Additional information</b>	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  <b>Tunnel code</b> (E)	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable.

### SECTION 15: Regulatory information

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

##### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorization

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

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### SECTION 15: Regulatory information

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Registration status

**All components are listed** :

- Australia inventory (AICS)
- China inventory (IECSC)
- Japan inventory
- New Zealand Inventory of Chemicals (NZIoC)
- Philippines inventory (PICCS)
- United States inventory (TSCA 8b)
- Europe inventory (EINECS/ELINCS/NLP)
- Canada inventory (DSL)

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

### SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

**Full text of abbreviated H statements** :

- H302 Harmful if swallowed.
- 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.

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### SECTION 16: Other information

<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4 Aquatic Acute 1, H400 AQUATIC HAZARD (ACUTE) - Category 1 Aquatic Chronic 1, H410 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 2, H411 AQUATIC HAZARD (LONG-TERM) - Category 2 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1 Skin Sens. 1B, H317 SKIN SENSITIZATION - Category 1B
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**Version** : 1

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.