# SAFETY DATA SHEET



### Fragrance 49362085

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

#### **1.1 Product identifier**

Product code	: Fragrance 49362085
Product name	: HIBISCUS PASSION

### 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 t	he	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 sub	stance or mixture
Product definition	: Mixture
Classification according to	Regulation (EC) No. 1272/2008 [CLP/GHS]
Skin Irrit. 2, H315	
Eye Irrit. 2, H319	
Skin Sens. 1, H317	
Aquatic Chronic 2, H411	
	Directive 1999/45/EC [DPD]
The product is classified as	a dangerous according to Directive 1999/45/EC and its amendments.
Classification	: Xi; R38
	R43
	N; R51/53
Human health hazards	: Irritating to skin. May cause sensitization by skin contact.
Environmental hazards	<ul> <li>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> </ul>
See Section 16 for the full te	xt of the R phrases or H statements declared above.
See Section 11 for more deta	ailed information on health effects and symptoms.
2.2 Label elements	
Hazard pictograms	



# **SECTION 2: Hazards identification**

Signal word	Warning	
Hazard statements	H319 - Causes serious eye irritation. H315 - Causes skin 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.	s.
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazardous ingredients	<ul> <li>A-hexylcinnamaldehyde</li> <li>1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one dipentene</li> <li>tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)</li> <li>3,7-dimethylnona-1,6-dien-3-ol</li> <li>benzyl salicylate</li> <li>linalool</li> <li>α-methyl-1,3-benzodioxole-5-propionaldehyde</li> <li>7-hydroxycitronellal</li> <li>(ethoxymethoxy)cyclododecane</li> <li>geranyl acetate</li> <li>pin-2(10)-ene</li> <li>3-(p-methoxyphenyl)-2-methylpropionaldehyde</li> <li>1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one</li> <li>delta-1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one</li> </ul>	
Supplemental label elements	Not applicable.	

2.3 Other hazards	2.3	Other	hazards
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Other hazards which do : None known. not result in classification

# **SECTION 3: Composition/information on ingredients**

3.1 Substances 3.2 Mixtures	<ul><li>Not applicable.</li><li>Mixture</li></ul>				
			Cla	ssification	Γ
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
α- hexylcinnamaldehyde	REACH #: 01-2119533092-50 EC: 202-983-3 EC: 639-566-4 CAS: 101-86-0 CAS: 165184-98-5	7.53	Xi; R38 R43 N; R50/53	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	[
1,3,4,6,7,8-hexahydro- 4,6,6,7,8, 8-hexamethylindeno[5, 6-c]pyran	REACH #: 01-2119488227-29 EC: 214-946-9 CAS: 1222-05-5 Index: 603-212-00-7	6.67	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[
1-(1,2,3,4,5,6,7, 8-octahydro-2,3,8, 8-tetramethyl-	REACH #: 01-2119489989-04 EC: 915-730-3	3.90	Xi; R38 R43	Skin Irrit. 2, H315 Skin Sens. 1B, H317	[
Date of issue/Date of revision	n : 2015-05-22. Da	ate of prin	ting : 2015-		4



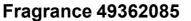
Туре

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## **SECTION 3: Composition/information on ingredients**

2-naphthyl)ethan-1-one	CAS: 54464-57-2 CAS: 68155-66-8 CAS: 68155-67-9		N; R51/53	Aquatic Chronic 1, H410	
dipentene	EC: 205-341-0 EC: 231-732-0 CAS: 138-86-3 CAS: 7705-14-8 Index: 601-029-00-7	3.64	R10 Xn; R65 Xi; R38 R43 N; R50/53	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
tetrahydro-2-isobutyl- 4-methylpyran-4-ol, mixed isomers (cis and trans)	REACH #: 01-0000015458-64 EC: 405-040-6 CAS: 63500-71-0 Index: 603-101-00-3	3.60	Xi; R36	Eye Irrit. 2, H319	[1]
3,7-dimethylnona-1, 6-dien-3-ol	REACH #: 01-2119969272-32 EC: 233-732-6 CAS: 10339-55-6	3.30	Xi; R38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
benzyl salicylate	REACH #: 01-2119969442-31	2.40	R43	Eye Irrit. 2, H319	[1]
	EC: 204-262-9 CAS: 118-58-1		N; R51/53	Skin Sens. 1B, H317 STOT SE 2, H371 (spleen) (oral)	
linalool	REACH #: 01-2119474016-42 EC: 201-134-4 CAS: 78-70-6	1.78	Xi; R38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
α-methyl-1,3- benzodioxole-5- propionaldehyde	EC: 214-881-6 CAS: 1205-17-0	1.50	R43 N; R51/53	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
(Z)-3-hexenyl salicylate	EC: 265-745-8 CAS: 65405-77-8	0.30	N; R50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
2,6-di-tert-butyl-p-	REACH #:	0.12	N; R50/53	Aquatic Acute 1, H400	[1] [2]
cresol	01-2119555270-46 EC: 204-881-4 CAS: 128-37-0			Aquatic Chronic 1, H410	
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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.

Туре

[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) : 4.2%



### **SECTION 4: First aid measures**

4.1 Description of first aid r	sures	
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and low eyelids. Check for and remove any contact lenses. Continue to rinse for at leas minutes. Get medical attention.</li> </ul>	
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathin 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 attentior adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loose tight clothing such as a collar, tie, belt or waistband.	n if
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 a 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 induce vomiting unless directed to do so by medical personnel. If vomiting occur the head should be kept low so that vomit does not enter the lungs. Get medica 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 medical attention immediately. Maintain an open airway. Loosen tight clothing s as a collar, tie, belt or waistband.	o not rs, I get
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. I may be dangerous to the person providing aid to give mouth-to-mouth resuscitat Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
4.2 Most important sympton	and effects, both acute and delayed	
Potential acute health effe		

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Irritating to mouth, throat and stomach.
<u>Over-exposure signs/</u>	: Not available.
<u>symptoms</u>	

#### 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.

# 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



# **SECTION 5: Firefighting measures**

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.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide
: 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.
: 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, prot	ective 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.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>



### **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 II Directive - Reporting thresholds (in tonnes)

Danger criteria

	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**

Product/ingredient name	Exposure limit values
2,6-di-tert-butyl-p-cresol	NIOSH REL (United States, 10/2013). TWA: 10 mg/m³ 10 hours.

#### **DNELs/DMELs**

Туре	Exposure	Value	Population	Effects
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 Inhalation	0.078 mg/ m³	Workers	Systemic
	DNEL DNEL DNEL	DNELShort term DermalDNELShort term InhalationDNELLong term DermalDNELLong term	DNELShort term Dermal0.525 mg/ cm²DNELShort term Inhalation6.28 mg/m³DNELLong term Dermal18.2 mg/ kg bw/dayDNELLong term0.078 mg/	DNELShort term Dermal0.525 mg/ cm2WorkersDNELShort term Inhalation6.28 mg/m3WorkersDNELLong term Dermal18.2 mg/ kg bw/dayWorkersDNELLong term0.078 mg/Workers



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S	SECTION 8: Exposure controls/personal protection										
		DNEL	Long term Dermal	0.525 mg/ cm²	Workers	Local					
		DNEL	Long term Inhalation	0.019 mg/ m³	Consumers	Systemic					
		DNEL	Short term Inhalation	4.7 mg/m³	Consumers	Local					
		DNEL	Long term Dermal	9 mg/kg bw/day	Consumers	Systemic					
		DNEL	Long term Dermal	0.079 mg/ cm²	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					
	1,3,4,6,7,8-hexahydro-4,6,6,7,8, 8-hexamethylindeno[5,6-c]pyran	DNEL	Long term Dermal	28.85 mg/ kg bw/day	Workers	Local					
		DNEL	Long term Inhalation	5.29 mg/m³	Workers	Systemic					
		DNEL	Long term Inhalation	1.3 mg/m³	Consumers	Systemic					
		DNEL	Long term Dermal	14.43 mg/ kg bw/day	Workers	Systemic					
		DNEL	Long term Oral	0.75 mg/ kg bw/day	Consumers	Systemic					
	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8, 8-tetramethyl-2-naphthyl)ethan- 1-one	DNEL	Long term Dermal	0.1011 mg/ cm²	Workers	Local					
		DNEL	Long term Inhalation	1.76 mg/m³	Workers	Systemic					
		DNEL	Long term Dermal	1.73 mg/ kg bw/day	Workers	Systemic					
	tetrahydro-2-isobutyl-4-methylpyran- 4-ol, mixed isomers (cis and trans)	DNEL	Long term Inhalation	12.2 mg/m <sup>3</sup>	Workers	Systemic					
		DNEL	Long term Dermal	3.47 mg/kg	Workers	Systemic					
		DNEL	Long term Dermal	2.08 mg/kg	Consumers	Systemic					
		DNEL	Long term Inhalation	3.62 mg/m <sup>3</sup>	Consumers	Systemic					
		DNEL	Long term Oral	1.04 mg/kg	Consumers	Systemic					
	3,7-dimethylnona-1,6-dien-3-ol	DNEL	Long term Dermal	2.7 mg/kg	Workers	Systemic					
		DNEL	Long term Inhalation	3 mg/m³	Workers	Systemic					

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DNEL

DNEL

Long term Dermal

Short term Dermal

: 2015-06-03.

Workers

Workers

16 mg/cm<sup>2</sup>

16 mg/cm<sup>2</sup>

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Local

Local



# SECTION 8: Exposure controls/personal protection

	DNEL	Short term Inhalation	18 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	5.5 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	1.4 mg/kg	Consumers	Systemic
	DNEL	Long term Inhalation	0.74 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	16 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Short term Dermal	16 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Short term Inhalation	4.4 mg/m³	Consumers	Systemic
	DNEL	Short term Dermal	2.7 mg/kg	Consumers	Systemic
	DNEL	Short term Oral	1.3 mg/kg	Consumers	Systemic
	DNEL	Long term Oral	0.2 mg/kg	Consumers	Systemic
benzyl salicylate	DNEL	Long term Inhalation	3.17 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.9 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.78 mg/m³	Consumers	Systemic
	DNEL	Long term Dermal	0.45 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	0.45 mg/ kg bw/day	Consumers	Systemic
linalool	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.8 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	15 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Short term Dermal	15 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	1.25 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	0.7 mg/m³	Consumers	Systemic
	DNEL	Long term Oral	0.2 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Dermal	15 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Short term Dermal	2.5 mg/cm <sup>2</sup>	Consumers	Systemic
	DNEL	Short term Inhalation	4.1 mg/m³	Consumers	Systemic
	DNEL	Short term Oral	1.2 mg/kg	Consumers	Systemic



# SECTION 8: Exposure controls/personal protection

	DNEL	Long term Dermal	15 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Short term Dermal	5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	16.5 mg/m³	Workers	Systemic
2,6-di-tert-butyl-p-cresol	DNEL	Long term Inhalation	58 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	1.74 mg/m³	Consumers	Systemic
	DNEL	Long term Dermal	8.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	Consumers	Systemic

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
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	-
1,3,4,6,7,8-hexahydro-4,6,6,7,8, 8-hexamethylindeno[5,6-c]pyran	Fresh water	0.0044 mg/l	-
	Marine water	0.00044 mg/l	-
	Fresh water sediment	2 mg/kg	-
	Marine water sediment	0.394 mg/kg	-
	Soil	0.31 mg/kg	-
	Sewage Treatment Plant	1 mg/l	-
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8, 8-tetramethyl-2-naphthyl)ethan-1-one	Fresh water	0.0028 mg/l	-
	Marine water	0.00028 mg/l	-
	Fresh water sediment	3.73 mg/kg	-
	Marine water sediment	0.75 mg/kg	-
	Soil	0.705 mg/kg	-
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Fresh water	0.094 mg/l	-





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

	Marine water	0.0094 mg/l	-
	Secondary Poisoning	0.94 mg/l	-
	Fresh water sediment	0.412 mg/kg	-
	Marine water sediment	0.0412 mg/kg	-
	Soil	0.0902 mg/kg	-
	Sewage Treatment Plant	10 mg/l	-
3,7-dimethylnona-1,6-dien-3-ol	Fresh water	0.023 mg/l	-
	Marine water	0.0023 mg/l	-
	Intermittent release	0.23 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	0.223 mg/kg	-
	Marine water sediment	0.0223 mg/kg	-
	Soil	0.031 mg/kg	-
benzyl salicylate	Fresh water	0.00103 mg/l	-
	Marine water	0.000103 mg/l	-
	Fresh water sediment	0.584 mg/kg	-
	Marine water sediment	0.0584 mg/kg	-
	Sewage Treatment Plant	10 mg/l	-
	Soil	0.021 mg/kg	-
	Secondary Poisoning	80 mg/kg	-
	Intermittent release	0.0103 mg/l	-
linalool	Fresh water	0.2 mg/l	-
	Marine water	0.02 mg/l	-
	Intermittent release	2 mg/l	-
	Fresh water sediment	2.22 mg/kg dwt	-
	Marine water sediment	0.222 mg/kg dwt	-
	Soil	0.327 mg/kg dwt	-
	Sewage Treatment Plant	>10 mg/l	-
2,6-di-tert-butyl-p-cresol	Soil	1.04 mg/kg wwt	Equilibrium Partitionir
	Sewage Treatment Plant	100 mg/l	Assessment Factors
	Sediment	1.29 mg/kg wwt	Equilibrium Partitionir
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## **SECTION 8: Exposure controls/personal protection**

	Secondary Poisoning	16.7 mg/kg	Assessment Factors
	Marine water	0.4 µg/l	Assessment Factors
	Fresh water	4 µg/l	Assessment Factors

8.2 Exposure controls		
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airl contaminants.	borne
Individual protection meas	<u>s</u>	
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 per Appropriate techniques should be used to remove potentially contaminated clo Contaminated work clothing should not be allowed out of the workplace. Was contaminated clothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.	othing. sh
Eye/face protection	Safety eyewear complying with an approved standard should be used when a assessment indicates this is necessary to avoid exposure to liquid splashes, n gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical spla goggles.	nists, ,
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard s be worn at all times when handling chemical products if a risk assessment ind this is necessary. Considering the parameters specified by the glove manufac check during use that the gloves are still retaining their protective properties. 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 several substances, the protection time of the gloves cannot be accurately estimated.	licates cturer, It
Body protection	Personal protective equipment for the body should be selected based on the tabeing performed and the risks involved and should be approved by a specialis 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 approved by a specialist before handling this product.	l be
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an appro standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the pr and the safe working limits of the selected respirator.	า
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislati In some cases, fume scrubbers, filters or engineering modifications to the pro- equipment will be necessary to reduce emissions to acceptable levels.	

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physic	cal and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Color	: Characteristic.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.

# **SECTION 9: Physical and chemical properties**

: Closed cup: 85°C	
: Not available.	
: Not available.	
∶ 0.13 hPa	
: Not available.	
: 0.978 to 0.988 g/cm <sup>3</sup> [20°C]	
: Non water-soluble liquid	
: Not available.	
: Not available.	
: Not available.	
: Kinematic (40°C): <0.07 cm <sup>2</sup> /s	(Estimated.)
: Not available.	
: Not available.	
	<ul> <li>Not available.</li> <li>Not available.</li> <li>O.13 hPa</li> <li>Not available.</li> <li>0.978 to 0.988 g/cm<sup>3</sup> [20°C]</li> <li>Non water-soluble liquid</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Kinematic (40°C): &lt;0.07 cm<sup>2</sup>/s</li> <li>Not available.</li> </ul>

### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: 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
$\alpha$ -hexylcinnamaldehyde	LC50 Inhalation Dusts and mists	Rat	>2100 mg/m <sup>3</sup>	8 hours
	LD50 Oral	Rat	3100 mg/kg	-
1,3,4,6,7,8-hexahydro-4,6,6, 7,8,8-hexamethylindeno[5, 6-c]pyran	LD50 Dermal	Rat	>5 g/kg	-
	LD50 Dermal	Rat	>6500 mg/kg	-
	LD50 Oral	Rat	>4640 mg/kg	-
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl-	LD50 Dermal	Rat	>5000 mg/kg	-
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# SECTION 11: Toxicological information

2-naphthyl)ethan-1-one				
	LD50 Oral	Rat	>5000 mg/kg	-
dipentene	LD50 Oral	Rat	5300 mg/kg	-
tetrahydro-2-isobutyl- 4-methylpyran-4-ol, mixed isomers (cis and trans)	LD50 Oral	Rat	5000 mg/kg	-
3,7-dimethylnona-1,6-dien- 3-ol	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5 g/kg	-
benzyl salicylate	LD50 Dermal	Rabbit	14150 mg/kg	-
	LD50 Oral	Rat	2227 mg/kg	-
linalool	LD50 Dermal	Rabbit	5610 mg/kg	-
	LD50 Dermal	Rat	5610 mg/kg	-
	LD50 Oral	Rat	2790 mg/kg	-
α-methyl-1,3-benzodioxole-5 -propionaldehyde	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	3600 mg/kg	-
(Z)-3-hexenyl salicylate	LD50 Dermal	Rabbit	>5 g/kg	-
2,6-di-tert-butyl-p-cresol	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	Skin - Irritant	Human	-	-	-
3,7-dimethylnona-1,6-dien- 3-ol	Eyes - Mild irritant	Rabbit	-	0.05 Percent	-
	Eyes - Moderate irritant	Rabbit	-	0.1 Mililiters	-
	Skin - Mild irritant	Rabbit	-	24 hours 0. 05 Percent	-
	Skin - Mild irritant	Rabbit	-	5 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 1 Percent	-
	Skin - Moderate irritant	Rabbit	-	4 hours 0.5 Mililiters	-
	Skin - Moderate irritant	Rabbit	-	10 Grams	-
linalool	Eyes - Moderate irritant	Rabbit	-	1 hours 0.1 Mililiters	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
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# **SECTION 11: Toxicological information**

 in rekiebiegiea menaden	-	-		
Skin - Moderate irritant	Guinea pig	-	24 hours 100 - milligrams	
Skin - Mild irritant	Human	-	72 hours 32 - Percent	
Skin - Mild irritant	Man	-	48 hours 16 - milligrams	
Skin - Mild irritant	Rabbit	-	24 hours 500 - milligrams	
Skin - Severe irritant	Rabbit	-	24 hours 100 - milligrams	

### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
α-hexylcinnamaldehyde	skin	Mouse	Sensitizing
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	skin	Mouse	Sensitizing
3,7-dimethylnona-1,6-dien- 3-ol	skin	Man	Not sensitizing

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
α-hexylcinnamaldehyde	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative
		Subject: Bacteria	
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo	Negative
		Subject: Mammalian-Animal	
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	-	Experiment: In vitro Subject: Mammalian-Human	Negative
	-	Experiment: In vivo Subject: Mammalian-Animal	Negative
2,6-di-tert-butyl-p-cresol	-	Experiment: In vitro Subject: Bacteria	Negative
	-	Experiment: In vitro Subject: Mammalian-Animal	Negative
	-	Experiment: In vivo Subject: Mammalian-Animal	Negative

#### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
2,6-di-tert-butyl-p-cresol	Negative	-	-	Rat - Male, Female	Oral: 100 mg/kg	-

Specific target organ toxicity (single exposure)





Product/ing	redient name	Category	Route of exposure	Target organs
benzyl salicylate		Category 2	Oral	spleen
Aspiration hazard				
Product/	ingredient name		Resul	t
dipentene		ASPIRA	TION HAZARD - Ca	ategory 1
Potential acute health effect	t <u>s</u>			
Eye contact	: Causes serious eye	irritation.		
Inhalation	: No known significant	effects or critical haz	ards.	
Skin contact	: Causes skin irritation	<ol> <li>May cause an aller</li> </ol>	gic skin reaction.	
Ingestion	: Irritating to mouth, th	roat and stomach.		
ymptoms related to the phy	vsical, chemical and tox	icological characteri	<u>stics</u>	
Eye contact	: Adverse symptoms m pain or irritation watering redness	nay include the following	ng:	
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms m irritation redness	nay include the following	ng:	
Ingestion	: No specific data.			
Delayed and immediate effe	cts and also chronic eff	ects from short and	long term exposu	<u>re</u>
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health ef				
Product/ingredient name	Result	Species	Dose	Exposure
α-hexylcinnamaldehyde	Sub-acute NOAEL Ora	-	150 mg/kg	-
,				
	Sub-acute LOAEL Derr	nal Rat	125 mg/kg	-
2,6-di-tert-butyl-p-cresol	Chronic NOAEL Oral	Rat	25 mg/kg	28 days; 7 day per week
General	: Once sensitized, a set to very low levels.	evere allergic reaction	may occur when s	subsequently expose
Carcinogenicity	•	effects or critical haz	ards.	
Mutagenicity	-	effects or critical haz		
Teratogenicity	: No known significant	effects or critical haz	ards.	
Developmental effects	: No known significant	effects or critical haz	ards.	
Fertility effects	: No known significant	effects or critical haz	ards.	
nteractive effects	: Not available.			
<u>Foxicokinetics</u>				
Absorption	: Not available.			
Distribution	: Not available.			
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		_		



# **SECTION 11: Toxicological information**

Metabolism	
Elimination	
Other information	

- Not available.Not available.
- : Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposur
α-hexylcinnamaldehyde	Acute EC50 0.247 mg/l	Daphnia	48 hours
	Acute LC50 1.7 mg/l	Fish	96 hours
	Chronic NOEC 0.065 mg/l	Algae	72 hours
	Chronic NOEC 0.069 mg/l Fresh water	Daphnia	21 days
1,3,4,6,7,8-hexahydro-4,6,6, 7,8,8-hexamethylindeno[5, 6-c]pyran	Acute EC50 0.9 mg/l	Daphnia	48 hours
	Acute LC50 0.452 mg/l	Fish	21 days
	Chronic NOEC 0.111 mg/l	Daphnia	21 days
	Chronic NOEC 0.068 mg/l	Fish	36 days
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	Acute EC50 2.6 mg/l	Algae	72 hours
	Acute EC50 1.38 mg/l	Daphnia	48 hours
	Acute LC50 1.3 mg/l	Fish	96 hours
	Chronic NOEC 0.028 mg/l	Daphnia	21 days
	Chronic NOEC 0.16 mg/l	Fish	30 days
dipentene	Acute EC50 28.2 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 20.2 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute IC50 13.798 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 31 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 38.5 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
tetrahydro-2-isobutyl- 4-methylpyran-4-ol, mixed isomers (cis and trans)	Acute EC50 320 mg/l	Daphnia	48 hours
	Acute LC50 354 mg/l	Fish	96 hours
3,7-dimethylnona-1,6-dien- 3-ol	Acute EC50 25.1 mg/l	Algae	72 hours
	Acute EC50 23 mg/l	Daphnia	48 hours
	Acute LC50 24 mg/l	Fish	96 hours





# SECTION 12: Ecological information

benzyl salicylate	EC50 1.29 mg/l	Algae - Pseudokirchnerella subcapitata	72 hours
	Acute EC50 1.16 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.03 mg/l	Fish - Danio rerio	96 hours
linalool	Acute EC50 141.4 mg/l	Aquatic plants	96 hours
	Acute EC50 59 mg/l	Daphnia	48 hours
	Acute EC50 >100 mg/l	Micro-organism	3 hours
	Acute LC50 27.8 mg/l	Fish	96 hours
α-methyl-1,3-benzodioxole-5 -propionaldehyde	Acute EC50 8.3 mg/l	Daphnia	48 hours
(Z)-3-hexenyl salicylate	Acute EC50 0.61 mg/l	Algae	72 hours
2,6-di-tert-butyl-p-cresol	Acute EC50 0.61 mg/l	Daphnia	48 hours
	Acute EC50 >10000 mg/l	Micro-organism	3 hours

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
α-hexylcinnamaldehyde	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97 % - Readily - 28 days	-	-
1,3,4,6,7,8-hexahydro-4,6,6, 7,8,8-hexamethylindeno[5, 6-c]pyran	OECD 301F Ready Biodegradability - Manometric Respirometry Test	2 % - Not readily - 28 days	-	-
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	OECD 301C Ready Biodegradability - Modified MITI Test (I)	11 % - Not readily - 28 days	-	-
tetrahydro-2-isobutyl- 4-methylpyran-4-ol, mixed isomers (cis and trans)	OECD 301C Ready Biodegradability - Modified MITI Test (I)	<60 % - Not readily - 28 days	-	-
3,7-dimethylnona-1,6-dien- 3-ol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	91 % - Readily - 28 days	-	-
benzyl salicylate	OECD 301F Ready Biodegradability - Manometric	93 % - Readily - 28 days	-	-



# **SECTION 12: Ecological information**

linalool	Respirometry Test OECD 301C Ready Biodegradability - Modified MITI Test (I)	64.2 % - Re	eadily - 28 days	-	-
α-methyl-1,3-benzodioxole-5 -propionaldehyde	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	29 % - Not	readily - 28 days	-	-
(Z)-3-hexenyl salicylate	OECD 301F Ready Biodegradability - Manometric Respirometry Test	89 % - Rea	dily - 28 days	-	-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability
α-hexylcinnamaldehyde	-		-		Readily
1,3,4,6,7,8-hexahydro-4,6,6, 7,8,8-hexamethylindeno[5, 6-c]pyran	-		-		Not readily
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	-		-		Not readily
tetrahydro-2-isobutyl- 4-methylpyran-4-ol, mixed isomers (cis and trans)	-		-		Not readily
3,7-dimethylnona-1,6-dien- 3-ol	-		-		Readily
benzyl salicylate	-		-		Readily
linalool	-		-		Readily
α-methyl-1,3-benzodioxole-5 -propionaldehyde	-		-		Not readily
(Z)-3-hexenyl salicylate	-		-		Readily
2,6-di-tert-butyl-p-cresol	-		-		Not readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
α-hexylcinnamaldehyde	5.3	6000	high
1,3,4,6,7,8-hexahydro-4,6,6, 7,8,8-hexamethylindeno[5, 6-c]pyran	5.3	2507	high
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	5.65	-	high
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# **SECTION 12: Ecological information**

dipentene	4.57	-	high
tetrahydro-2-isobutyl- 4-methylpyran-4-ol, mixed isomers (cis and trans)	1.65	-	low
3,7-dimethylnona-1,6-dien- 3-ol	3.3	-	low
benzyl salicylate	4	311	low
linalool	2.84	-	low
α-methyl-1,3-benzodioxole-5 -propionaldehyde	1.368	-	low
(Z)-3-hexenyl salicylate	4.8	-	high
2,6-di-tert-butyl-p-cresol	4.17	330 to 1800	high

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.
Hererdeue weete	The electricities of the product may most the criteric for a hearthque waste

#### 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	
Methods of disposal	<ul> <li>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.</li> </ul>
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.

Date of issue/Date of revision





### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (α- hexylcinnamaldehyde, 1,3,4,6,7 ,8-hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6-c]pyran)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (α- hexylcinnamaldehyde, 1,3,4,6,7 ,8-hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6-c]pyran)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (α- hexylcinnamaldehyde, 1,3,4, 6,7,8-hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6-c] pyran)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	111	111	111
14.5 Environmental hazards	Yes.	Marine pollutant	Yes.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Tunnel code</u> (E)	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

user

14.6 Special precautions for : 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

### 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

: Not applicable.

#### **Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market

and use of certain dangerous substances, mixtures and articles

**Registration status** 

All components are listed : Australia inventory (AICS)

# SECTION 15: Regulatory information

SECTION 16: Othe	er information nat has changed from previously issued version.
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are still required.
	At least one component is not listed in DSL but all such components are listed in NDSL.
	Canada inventory (DSL/NDSL)
	Europe inventory (EINECS/ELINCS/ NLP)
	United States inventory (TSCA 8b)
	China inventory (IECSC)

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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]

Classif	ication	Justification
Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411		Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H315 Causes skin irri H317 May cause an a H319 Causes serious H371 May cause dam (spleen) (oral) H400 Very toxic to aq H410 Very toxic to aq	wallowed and enters airways. tation. Illergic skin reaction. eye irritation. lage to organs if swallowed. (spleen)
Full text of classifications [CLP/GHS]		AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (spleen) (oral) - Category 2



### **SECTION 16: Other information**

Full text of abbreviated R phrases	<ul> <li>R10- Flammable.</li> <li>R65- Harmful: may cause lung damage if swallowed.</li> <li>R36- Irritating to eyes.</li> <li>R38- Irritating to skin.</li> <li>R43- May cause sensitization by skin contact.</li> <li>R50- Very toxic to aquatic organisms.</li> <li>R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> </ul>
Full text of classifications [DSD/DPD]	: Xn - Harmful Xi - Irritant N - Dangerous for the environment
Date of printing	: 2015-06-03.
Date of issue/ Date of revision	: 2015-05-22.
Date of previous issue	: 2015-04-28.
Version	: 1.04
Notice to reader	

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.

