SAFETY DATA SHEET

Fragrance 30013139



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

1.1 Product identifier	1.1	Prod	luct i	dentif	ier
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Product code	: Fragrance 30013139
Product name	: FLOWER BASKAT AFL

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 su	bsta	nce or mixture					
Product definition	:	Mixture					
Classification according t	to Re	gulation (EC) N	<u>o. 1272/2008 [0</u>	LP/GHS]			
Skin Irrit. 2, H315 Eye Irrit. 2, H319							
Skin Sens. 1, H317							
Aquatic Chronic 2, H411							
See Section 16 for the full t	ext o	f the H statemen	ts declared abov	/e.			
See Section 11 for more de	etaileo	d information on	nealth effects ar	nd symptoms.			
2.2 Label elements							
Hazard pictograms	:		¥_2				
Signal word	:	Warning					
Hazard statements	:	H319 - Causes	serious eye irrit	ation.			
		H315 - Causes					
		H317 - May cau					
			aquatic life with	long lasting effects.			
Precautionary statements	-						
Prevention	:	P280 - Wear pr P273 - Avoid re	•	Wear eye or face protection. vironment.			
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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.	
Storage	: Not applicable.	
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. 	
Hazardous ingredients	 	
Supplemental label elements	: Not applicable.	

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances	: Not applicable.

3.2 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/200 [CLP]	8 Type
 mixture of: cis-tetrahydro- 2-isobutyl-4-methylpyran- 4-ol; trans-tetrahydro- 2-isobutyl-4-methylpyran-4-ol 	REACH #: 01-2119455547-30 EC: 405-040-6 CAS: 63500-71-0 Index: 603-101-00-3	18.00	Eye Irrit. 2, H319	[1]
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	17.66	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
	CAS: 1222-05-5 Index: 603-212-00-7			
isoeugenol	EC: 202-590-7 CAS: 97-54-1	7.00	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317	[1]
citronellol	REACH #: 01-2119453995-23 EC: 203-375-0 CAS: 106-22-9	3.00	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	[1]
linalool	REACH #: 01-2119474016-42 EC: 201-134-4 CAS: 78-70-6	3.00	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
α -methyl-1,3-benzodioxole-5-	EC: 214-881-6	2.00	Skin Sens. 1B, H317	[1]
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SECTION 3: Composition/information on ingredients

propionaldehyde	CAS: 1205-17-0		Aquatic Chronic 2, H411	
2-phenylethanol	REACH #:	1.50	Acute Tox. 4, H302	[1]
	01-2119963921-31 EC: 200-456-2 CAS: 60-12-8		Eye Irrit. 2, H319	
(Z)-3-hexenyl salicylate	EC: 265-745-8 CAS: 65405-77-8	0.30	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
			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) : 0.1%

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 <u>Potential acute health effects</u>

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SECTION 4: First aid measures			
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	: No known significant effects or critical hazards.		
<u>Over-exposure signs/</u>	: Not available.		
<u>symptoms</u>			
4.3 Indication of any immedia	ate 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: Firefight	ing 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 f	rom 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: Acciden	tal release measures		
6.1 Personal precautions, pre	otective 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		

- 6.2 Environmental
 : Avoid dispersal of spilled material and runoff and contact with soil, waterways,
- precautionsdrains 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.

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SECTION 6: Accidental release measures

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	 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

	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.

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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	Туре	Exposure	Value	Population	Effects
Mixture of: cis-tetrahydro- 2-isobutyl-4-methylpyran-4-ol; trans- tetrahydro-2-isobutyl-4-methylpyran- 4-ol	DNEL	Long term Inhalation	12.2 mg/m³	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/m³	Consumers	Systemic
	DNEL	Long term Oral	1.04 mg/kg	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/m ³	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
citronellol	DNEL	Long term Inhalation	161.6 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	327.4 mg/ kg	Workers	Systemic
	DNEL	Short term Dermal	2.95 mg/ cm²	Workers	Local
	DNEL	Long term Inhalation	47.8 mg/m ³	Consumers	Systemic
	DNEL	Long term Dermal	196.4 mg/ kg	Consumers	Systemic
	DNEL	Long term Oral	13.8 mg/kg	Consumers	Systemic
	DNEL	Short term Dermal	2.95 mg/ cm²	Consumers	Local
	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
	DNEL	Long term Inhalation	10 mg/m³	Consumers	Local



SECTION 8: Exposure controls/personal protection

linalool	DNEL	Long term Dermal	2.5 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term Inhalation	2.8 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	15 mg/cm ²	Workers	Local
	DNEL	Short term Dermal	15 mg/cm ²	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 ²	Consumers	Local
	DNEL	Short term Dermal	2.5 mg/cm ²	Consumers	Systemic
	DNEL	Short term Inhalation	4.1 mg/m³	Consumers	Systemic
	DNEL	Short term Oral	1.2 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Dermal	15 mg/cm ²	Consumers	Local
	DNEL	Short term Dermal	5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	16.5 mg/m³	Workers	Systemic
2-phenylethanol	DNEL	Long term Inhalation	59.9 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	21.2 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	17.7 mg/m³	Consumers	Systemic
	DNEL	Long term Dermal	12.7 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	5.1 mg/kg bw/day	Consumers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
mixture of: cis-tetrahydro-2-isobutyl- 4-methylpyran-4-ol; trans-tetrahydro- 2-isobutyl-4-methylpyran-4-ol	Fresh water	0.094 mg/l	-
	Marine water	0.0094 mg/l	-
	Intermittent release	0.94 mg/l	-
	Fresh water sediment	0.412 mg/kg	-
	Marine water sediment	0.0412 mg/kg	-
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SECTION 8: Exposure controls/personal protection

	Soil	0.0902 mg/kg	-
	Sewage Treatment Plant	10 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	-
citronellol	Fresh water	0.0024 mg/l	-
	Marine water	0.00024 mg/l	-
	Sewage Treatment Plant	580 mg/l	-
	Fresh water sediment	0.0256 mg/kg	-
	Marine water sediment	0.00256 mg/l	-
	Soil	0.00371 mg/kg	-
	Intermittent release	0.024 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-phenylethanol	Fresh water	0.215 mg/l	-
	Marine water	0.0215 mg/l	-
	Intermittent release	2.15 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	1.454 mg/kg	-
	Marine water sediment	0.1454 mg/kg	-
	Soil	0.164 mg/kg	-

8.2 Exposure controls



•	re controls/personal protection
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</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 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 indicate this is necessary. Considering the parameters specified by the glove manufactures 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.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: 109°C
Evaporation rate	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapor pressure	: 0.02 hPa
Vapor density	: Not available.

SECTION 9: Physical and chemical properties

Density	: 0.974 to 0.984 g/cm ³ [20°C]	
Solubility in water	: Non water-soluble liquid	
Partition coefficient: n-octanol/ water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity	: Kinematic (40°C): <0.07 cm ² /s	(Estimated.)
Explosive properties	: Not available.	
Oxidizing properties	: Not available.	

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
 mixture of: cis-tetrahydro- 2-isobutyl-4-methylpyran- 4-ol; trans-tetrahydro- 2-isobutyl-4-methylpyran- 4-ol 	LD50 Dermal	Rat	>2500 mg/kg	-
	LD50 Oral	Rat	5000 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	-
isoeugenol	LD50 Oral	Rat	1560 mg/kg	-
citronellol	LD50 Dermal	Rabbit	2650 mg/kg	-
	LD50 Oral	Rat	3450 mg/kg	-
linalool	LD50 Dermal	Rabbit	5610 mg/kg	-
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SECTION 11: Toxicological information

	•			
	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	-
2-phenylethanol	LD50 Dermal	Rabbit	2535 mg/kg	-
	LD50 Oral	Rat	1609 mg/kg	-
(Z)-3-hexenyl salicylate	LD50 Dermal	Rabbit	>5 g/kg	-

Acute toxicity estimates

Route	ATE value	
Oral	18452.1 mg/kg	
Dermal	15229.6 mg/kg	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
isoeugenol	Skin - Severe irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Moderate irritant	Man	-	48 hours 16 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
citronellol	Eyes - Moderate irritant	Rabbit	-	0.42 Percent	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Moderate irritant	Man	-	48 hours 16 milligrams	-
	Skin - Moderate irritant	Rabbit	-	4 hours 0.42 Percent	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	4 hours 0.5 Mililiters	-
linalool	Eyes - Moderate irritant	Rabbit	-	1 hours 0.1 Mililiters	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	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	-
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				milligrams	
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
2-phenylethanol	Eyes - Mild irritant	Rabbit	-	10 minutes 12 Grams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result			
citronellol	skin	Mouse	Sensitizing			
Potential acute health effects	2		·			
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	: No known significant effects or critical hazards.					

estion	÷	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 immedi	ate effects and also chronic effects from short and long term exposure

	_	
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	1	No known significant effects or critical hazards.
Developmental effects	1	No known significant effects or critical hazards.
Fertility effects	1	No known significant effects or critical hazards.
Interactive effects	1	Not available.
Toxicokinetics		
Absorption	1	Not available.
Distribution	:	Not available.

Metabolism : Not available.

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SECTION 11: Toxicological information



: Not available.

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
 mixture of: cis-tetrahydro- 2-isobutyl-4-methylpyran- 4-ol; trans-tetrahydro- 2-isobutyl-4-methylpyran-4-ol 	Acute EC50 320 mg/l	Daphnia	48 hours
	Acute LC50 354 mg/l	Fish	96 hours
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
isoeugenol	EC50 7.5 mg/l	Daphnia	48 hours
citronellol	Acute EC10 580 mg/l	Micro-organism	30 minutes
	Acute EC50 2.4 mg/l	Aquatic plants	72 hours
	Acute EC50 17.48 mg/l	Daphnia	48 hours
	Acute LC50 14.66 mg/l	Fish	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
2-phenylethanol	Acute EC50 287 mg/l	Daphnia	48 hours
	Acute LC50 460 mg/l	Fish	96 hours
(Z)-3-hexenyl salicylate	Acute EC50 0.61 mg/l	Algae	72 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Minixture of: cis-tetrahydro- 2-isobutyl-4-methylpyran- 4-ol; trans-tetrahydro- 2-isobutyl-4-methylpyran-4-ol	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	0 % - Not 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	2 % - Not readily - 28 days	-	-
te of issue/Date of revision	: 2016-05-13 Da	te of printing : 2016-05	5-13 Ver	sion :1.03 13/1



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	Respirometry Test					
isoeugenol	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	81 % - Rea	idily - 28 days	-		-
citronellol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	90 % - Readily - 28 days -		-		-
linalool	OECD 301C Ready Biodegradability - Modified MITI Test (I)	64.2 % - Readily - 28 days		-		-
α-methyl-1,3-benzodioxole-5 -propionaldehyde	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	29 % - Not readily - 28 days		-		-
2-phenylethanol	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	79 % - Readily - 28 days		-		-
(Z)-3-hexenyl salicylate	OECD 301F Ready Biodegradability - Manometric Respirometry Test	89 % - Rea	idily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
 mixture of: cis-tetrahydro- 2-isobutyl-4-methylpyran- 4-ol; trans-tetrahydro- 2-isobutyl-4-methylpyran-4-ol 	-		-		Not rea	dily
1,3,4,6,7,8-hexahydro-4,6,6, 7,8,8-hexamethylindeno[5, 6-c]pyran	-		-		Not rea	dily
isoeugenol	-		-		Readily	
citronellol	-		-		Readily	
linalool	-		-		Readily	
α-methyl-1,3-benzodioxole-5 -propionaldehyde	-		-		Not rea	dily
2-phenylethanol	-		-		Readily	
(Z)-3-hexenyl salicylate	-		-		Readily	

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12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
 mixture of: cis-tetrahydro- 2-isobutyl-4-methylpyran- 4-ol; trans-tetrahydro- 2-isobutyl-4-methylpyran-4-ol 	1.65	-	low
1,3,4,6,7,8-hexahydro-4,6,6, 7,8,8-hexamethylindeno[5, 6-c]pyran	5.3	2507	high
isoeugenol	3.04	-	low
citronellol	3.41	82.59	low
linalool	2.84	-	low
α-methyl-1,3-benzodioxole-5 -propionaldehyde	1.368	-	low
2-phenylethanol	1.36	-	low
(Z)-3-hexenyl salicylate	4.8	-	high

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: 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

Ρ	ro	d	u	ct	
-					

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.
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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 dispos	 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. 	





SECTION 13: Disposal considerations

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
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7, 8-hexahydro-4,6,6,7,8, 8-hexamethylindeno[5,6-c] pyran, alpha-methyl-1, 3-benzodioxole- 5-propionaldehyde)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7, 8-hexahydro-4,6,6,7,8, 8-hexamethylindeno[5,6-c] pyran, alpha-methyl-1, 3-benzodioxole- 5-propionaldehyde)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7, 8-hexahydro-4,6,6,7,8, 8-hexamethylindeno[5,6-c] pyran, alpha-methyl-1, 3-benzodioxole- 5-propionaldehyde)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	Ш	111	111
14.5 Environmental hazards	Yes.	Marine pollutant	Yes.
Additional information	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. Tunnel code (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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

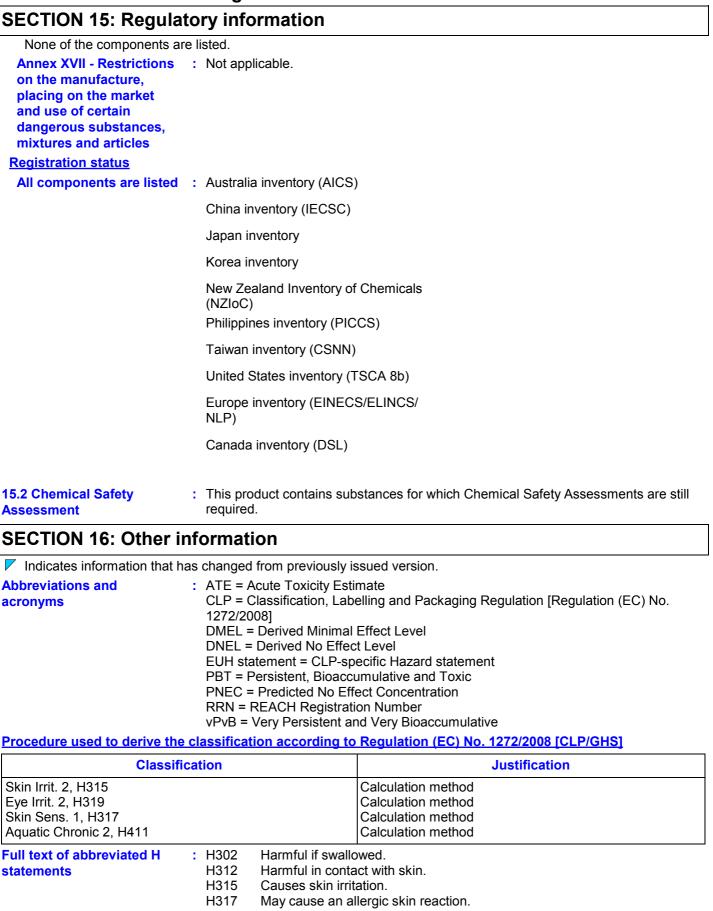
Annex XIV - List of substances subject to authorization

: Not applicable.

Annex XIV

None of the components are listed.

Substances of very high concern



- 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.



SECTION 16: Other information

Full text of classifications	: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
[CLP/GHS]	Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - 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
	Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
	Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
	Skin Sens. 1A, H317 SKIN SENSITIZATION - Category 1A
	Skin Sens. 1B, H317 SKIN SENSITIZATION - Category 1B
Date of printing	: 2016-05-13
Date of issue/ Date of	: 2016-05-13
revision	
Date of previous issue	: 2015-12-14
Version	: 1.03
Notice to reader	

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