

SAFETY DATA SHEET

Fragrance 30021828

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

1.1 Product identifier

Product code : Fragrance 30021828
Product name : GINGER & MANDARINE 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 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]

Skin Irrit. 2, H315
 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.
 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.

Fragrance 30021828

SECTION 2: Hazards identification

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	:  dipentene linalool α -hexylcinnamaldehyde Terpineol citral hexyl salicylate 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one citronellol 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one cineole 3,7-dimethylocta-1,6-diene pin-2(3)-ene geranyl acetate eugenol 2-methylundecanal 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one isoeugenol
Supplemental label elements	: Not applicable.


2.3 Other hazards

Other hazards which do not result in classification	: None known.
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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
 dipentene	EC: 205-341-0 CAS: 138-86-3 Index: 601-029-00-7	7.61	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]
linalool	REACH #: 01-2119474016-42 EC: 201-134-4 CAS: 78-70-6	5.07	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
α -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]
Terpineol	REACH #: 01-2119553062-49 EC: 232-268-1 CAS: 8000-41-7	3.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
benzyl acetate	REACH #:	2.50	Aquatic Chronic 3, H412	[1]

Fragrance 30021828

SECTION 3: Composition/information on ingredients

citral	01-2119638272-42 EC: 205-399-7 CAS: 140-11-4	2.07	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	[1]
	REACH #: 01-2119462829-23 EC: 226-394-6 CAS: 5392-40-5 Index: 605-019-00-3			
hexyl salicylate	01-2119638275-36 EC: 228-408-6 CAS: 6259-76-3	2.00	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
	REACH #: 01-2119638275-36 EC: 228-408-6 CAS: 6259-76-3			
6,6-Dimethoxy-2,5, 5-trimethylhex-2-ene	EC: 266-885-2 CAS: 67674-46-8	1.50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
	EC: 266-885-2 CAS: 67674-46-8			
3-methyl-4-(2,6,6-trimethyl- 2-cyclohexen-1-yl)-3-buten- 2-one	EC: 204-846-3 CAS: 127-51-5	1.40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
	EC: 204-846-3 CAS: 127-51-5			
citronellol	01-2119453995-23 EC: 203-375-0 CAS: 106-22-9	1.02	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	[1]
	REACH #: 01-2119453995-23 EC: 203-375-0 CAS: 106-22-9			
2-ethyl-4-(2,2,3-trimethyl- 3-cyclopenten-1-yl)-2-buten- 1-ol	01-2119529224-45 EC: 248-908-8 CAS: 28219-61-6	1.00	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
	REACH #: 01-2119529224-45 EC: 248-908-8 CAS: 28219-61-6			
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	01-2119489989-04 EC: 915-730-3 CAS: 54464-57-2 CAS: 68155-66-8 CAS: 68155-67-9	1.00	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
	REACH #: 01-2119489989-04 EC: 915-730-3 CAS: 54464-57-2 CAS: 68155-66-8 CAS: 68155-67-9			
Oxacyclohexadecen-2-one	01-0000016883-62 EC: 422-320-3 CAS: 34902-57-3 CAS: 111879-80-2 Index: 606-092-00-4	0.30	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
	REACH #: 01-0000016883-62 EC: 422-320-3 CAS: 34902-57-3 CAS: 111879-80-2 Index: 606-092-00-4			
pin-2(3)-ene	EC: 201-291-9 CAS: 80-56-8	0.18	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]
	EC: 201-291-9 CAS: 80-56-8			
1-(2,6,6-trimethyl- 3-cyclohexen-1-yl)-2-buten- 1-one	EC: 260-709-8 CAS: 57378-68-4	0.10	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317	[1]
	EC: 260-709-8 CAS: 57378-68-4			

Fragrance 30021828

SECTION 3: Composition/information on ingredients

2-methylundecanal	REACH #: 01-2119969443-29 EC: 203-765-0 CAS: 110-41-8	0.10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	[1]
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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

[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) : 0.01%

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 delayedPotential acute health effects

- Eye contact** : Causes serious eye irritation.

Fragrance 30021828

SECTION 4: First aid measures

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/symptoms</u>	: 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.

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.
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6.3 Methods and materials for containment and cleaning up

Fragrance 30021828

SECTION 6: Accidental release measures

- 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

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.

Fragrance 30021828

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 parametersOccupational exposure limits

No exposure limit value known.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
linalool	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.8 mg/m ³	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/m ³	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/m ³	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/m ³	Workers	Systemic
α-hexylcinnamaldehyde	DNEL	Short term Dermal	0.525 mg/cm ²	Workers	Local
	DNEL	Short term Inhalation	6.28 mg/m ³	Workers	Local
	DNEL	Long term Dermal	18.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.078 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	0.525 mg/cm ²	Workers	Local
	DNEL	Long term Inhalation	0.019 mg/m ³	Consumers	Systemic
	DNEL	Short term	4.7 mg/m ³	Consumers	Local

Fragrance 30021828

SECTION 8: Exposure controls/personal protection

Terpineol		Inhalation			
	DNEL	Long term Dermal	9 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Dermal	0.079 mg/cm ²	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
	DNEL	Short term Dermal	5 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	1.17 mg/kg	Workers	Systemic
	DNEL	Short term Inhalation	5.8 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	5.8 mg/m ³	Workers	Systemic
	DNEL	Short term Oral	2.5 mg/kg	Consumers	Systemic
	DNEL	Long term Oral	0.42 mg/kg	Consumers	Systemic
	DNEL	Short term Dermal	2.5 mg/kg	Consumers	Systemic
	DNEL	Long term Dermal	0.42 mg/kg	Consumers	Systemic
	DNEL	Short term Inhalation	1.25 mg/m ³	Consumers	Systemic
	DNEL	Long term Inhalation	1.25 mg/m ³	Consumers	Systemic
benzyl acetate	DNEL	Long term Inhalation	21.9 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	43.8 mg/m ³	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 ³	Consumers	Systemic
	DNEL	Short term Inhalation	11 mg/m ³	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
	DNEL	Short term Oral	6.25 mg/	Consumers	Systemic

Fragrance 30021828

SECTION 8: Exposure controls/personal protection

			kg bw/day		
citral	DNEL	Long term Inhalation	9 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1.7 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	0.14 mg/cm ²	Workers	Local
	DNEL	Long term Inhalation	2.7 mg/m ³	Consumers	Systemic
	DNEL	Long term Dermal	1 mg/kg	Consumers	Systemic
	DNEL	Long term Oral	0.6 mg/kg	Consumers	Systemic
	DNEL	Long term Dermal	0.14 mg/cm ²	Consumers	Local
hexyl salicylate	DNEL	Long term Inhalation	0.729 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	2083 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.219 mg/m ³	Consumers	Systemic
	DNEL	Long term Dermal	1250 mg/kg bw/day	Consumers	Systemic
citronellol	DNEL	Long term Inhalation	161.6 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	327.4 mg/kg	Workers	Systemic
	DNEL	Short term Dermal	2.95 mg/cm ²	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/cm ²	Consumers	Local
	DNEL	Long term Inhalation	10 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	10 mg/m ³	Consumers	Local
	DNEL	Short term Oral	3 mg/kg bw/day	Workers	Systemic
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	DNEL	Long term Oral	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	6 mg/kg	Workers	Systemic

Fragrance 30021828

SECTION 8: Exposure controls/personal protection

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	DNEL	Long term Dermal	1.4 mg/kg bw/day	Workers	-
	DNEL	Short term Inhalation	7 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	7 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	0.1011 mg/cm ²	Workers	Local
	DNEL	Long term Inhalation	1.76 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1.73 mg/kg bw/day	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
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	-
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	-
Terpineol	Sewage Treatment Plant	2.57 mg/l	-
	Fresh water	0.062 mg/l	-
	Soil	0.052 mg/kg	-
	Marine water	0.0062 mg/l	-
	Fresh water sediment	0.442 mg/kg	-
benzyl acetate	Marine water sediment	0.044 mg/kg	-
	Fresh water	0.004 mg/l	-

Fragrance 30021828

SECTION 8: Exposure controls/personal protection

citral	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	-
	Fresh water	0.00678 mg/l	-
	Marine water	0.000678 mg/l	-
	Fresh water sediment	0.125 mg/kg	-
	Marine water sediment	0.0125 mg/kg	-
	Soil	0.0209 mg/kg	-
	Sewage Treatment Plant	1.6 mg/l	-
hexyl salicylate	Intermittent release	0.0678 mg/l	-
	Fresh water	0.000357 mg/l	-
	Marine water	0.0000357 mg/l	-
	Fresh water sediment	0.059 mg/kg	-
	Marine water sediment	0.0059 mg/kg	-
	Soil	0.0542 mg/kg	-
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	-
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Intermittent release	0.024 mg/l	-
	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	-
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,	Fresh water	0.0028 mg/l	-

Fragrance 30021828

SECTION 8: Exposure controls/personal protection

8-tetramethyl-2-naphthyl)ethan-1-one	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	-

8.2 Exposure controls

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

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.

Fragrance 30021828

SECTION 9: Physical and chemical properties

Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: 70°C
Evaporation rate	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapor pressure	: 0.21 hPa
Vapor density	: Not available.
Density	: 0.968 to 0.978 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
linalol	LD50 Oral	Rat	5300 mg/kg	-
linalool	LD50 Dermal	Rabbit	5610 mg/kg	-
	LD50 Dermal	Rat	5610 mg/kg	-
	LD50 Oral	Rat	2790 mg/kg	-
α-hexylcinnamaldehyde	LC50 Inhalation Dusts and mists	Rat	>2100 mg/m ³	8 hours

Fragrance 30021828

SECTION 11: Toxicological information

Terpineol	LD50 Oral	Rat	3100 mg/kg	-
	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
benzyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	2490 mg/kg	-
citral	LD50 Dermal	Rabbit	2250 mg/kg	-
	LD50 Oral	Rat	3.45 g/kg	-
hexyl salicylate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	LD50 Dermal	Rat	>2000 mg/kg	-
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	LD50 Dermal	Rabbit	>5000 mg/kg	-
citronellol	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	2650 mg/kg	-
	LD50 Oral	Rat	3450 mg/kg	-
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	LD50 Dermal	Rabbit	4600 mg/kg	-
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Oxacyclohexadecen-2-one	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
pin-2(3)-ene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3700 mg/kg	-
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	LD50 Dermal	Rabbit	>5000 mg/kg	-
2-methylundecanal	LD50 Oral	Mouse	1821 mg/kg	-
	LD50 Dermal	Rabbit	>10 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-

Irritation/Corrosion

Fragrance 30021828

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
linalool	Eyes - Moderate irritant	Rabbit	-	1 hours 0.1 Milliliters	-
	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 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
Terpineol	Eyes - Mild irritant	Mammal - species unspecified	-	12.5 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
citral	Skin - Moderate irritant	Guinea pig	-	48 hours 1 Percent	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 40 milligrams	-
	Skin - Severe irritant	Man	-	48 hours 16 milligrams	-
	Skin - Severe irritant	Pig	-	48 hours 50 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 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	-

Fragrance 30021828

SECTION 11: Toxicological information

pin-2(3)-ene	Skin - Severe irritant	Man	-	Milliliters 100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
2-methylundecanal	Skin - Moderate irritant	Guinea pig	-	-	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
α-hexylcinnamaldehyde	skin	Mouse	Sensitizing
citronellol	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

Mutagenicity

Product/ingredient name	Test	Experiment	Result
α-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
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

Aspiration hazard

Product/ingredient name	Result
α-pentene	ASPIRATION HAZARD - Category 1
pin-2(3)-ene	ASPIRATION HAZARD - Category 1

Potential acute health effects

- 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.

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

Fragrance 30021828

SECTION 11: Toxicological information

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.

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
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
Limonene	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
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

Fragrance 30021828

SECTION 12: Ecological information

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
Terpineol	Acute EC50 73 mg/l	Daphnia	48 hours
	Acute LC50 80 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
	Acute LC50 4000 µg/l Fresh water	Fish - Oryzias latipes - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
citral	Chronic NOEC 52 mg/l	Algae	72 hours
	Acute EC50 103.8 mg/l	Aquatic plants	72 hours
	Acute EC50 7 mg/l	Daphnia	48 hours
	Acute LC50 6.8 mg/l	Fish	96 hours
hexyl salicylate	Acute EC50 0.357 mg/l	Daphnia	48 hours
	Acute LC50 0.61 mg/l	Algae	72 hours
	Acute LC50 1.34 mg/l	Fish	96 hours
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	Acute EC50 50.7 mg/l	Daphnia	48 hours
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Acute EC50 2.65 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
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
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

Fragrance 30021828

SECTION 12: Ecological information

Oxacyclohexadecen-2-one	Chronic NOEC 0.16 mg/l	Fish	30 days
	Acute EC50 >0.96 mg/l	Daphnia	48 hours
	Acute LC50 >0.8 mg/l	Fish	96 hours
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Acute LC50 0.977 mg/l	Fish	96 hours
2-methylundecanal	Acute EC50 0.18 mg/l	Algae	72 hours
	Acute EC50 0.21 mg/l	Daphnia	48 hours
	Acute LC50 0.35 mg/l	Fish	96 hours
	Acute NOEC 0.089 mg/l	Algae	-

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
linalool	OECD 301C Ready Biodegradability - Modified MITI Test (I)	64.2 % - Readily - 28 days	-	-
α -hexylcinnamaldehyde	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97 % - Readily - 28 days	-	-
Terpineol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	80 % - Readily - 28 days	-	-
benzyl acetate	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	92 % - Readily - 28 days	-	-
citral	OECD 301C Ready Biodegradability - Modified MITI Test (I)	92 % - Readily - 28 days	-	-
hexyl salicylate	OECD 301F Ready Biodegradability - Manometric Respirometry Test	82 % - Readily - 28 days	-	-
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	OECD 301D Ready Biodegradability - Closed Bottle	<60 % - Not readily - 28 days	-	-

Fragrance 30021828

SECTION 12: Ecological information

	Test			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	-	77 % - Readily - 28 days	-	-
citronellol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	90 % - 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	-	-
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	-	-
Oxacyclohexadecen-2-one	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97 % - Readily - 28 days	-	-
pin-2(3)-ene	OECD 301C Ready Biodegradability - Modified MITI Test (I)	37 % - Not readily - 31 days	-	-
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	OECD 301C Ready Biodegradability - Modified MITI Test (I)	16 % - Not readily - 28 days	-	-
2-methylundecanal	301F Ready Biodegradability - Manometric Respirometry Test	68 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
linalool	-	-	Readily
α-hexylcinnamaldehyde	-	-	Readily
Terpineol	-	-	Readily
benzyl acetate	-	-	Readily
citral	-	-	Readily
hexyl salicylate	-	-	Readily
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	-	-	Not readily

Fragrance 30021828

SECTION 12: Ecological information

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	-	-	Readily
citronellol	-	-	Readily
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	-	-	Not readily
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	-	Not readily
Oxacyclohexadecen-2-one	-	-	Readily
pin-2(3)-ene	-	-	Not readily
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	-	-	Not readily
2-methylundecanal	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
linalool	4.57	-	high
linalool	2.84	-	low
α-hexylcinnamaldehyde	5.3	6000	high
Terpineol	3.1	24.13	low
benzyl acetate	1.49	8	low
citral	2.76	89.72	low
hexyl salicylate	5.5	8913	high
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	4.3	-	high
citronellol	3.41	82.59	low
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	4.3	667	high
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	5.65	-	high
Oxacyclohexadecen-2-one	5.45	-	high
pin-2(3)-ene	4.83	1845	high
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	4.2	-	high
2-methylundecanal	3.6	-	low

Fragrance 30021828

SECTION 12: Ecological information**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**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

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
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dipentene, alpha-hexylcinnamaldehyde)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dipentene, alpha-hexylcinnamaldehyde)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dipentene, alpha-hexylcinnamaldehyde)
14.3 Transport hazard class(es)	9 	9 	9 
14.4 Packing group	III	III	III

Fragrance 30021828

SECTION 14: Transport information

14.5 Environmental hazards	Yes.	Marine pollutant	Yes.
Additional information	<p>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.</p> <p>Tunnel code (E)</p>	<p>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.</p>	<p>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.</p>

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

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 : Philippines inventory (PICCS)

Taiwan inventory (CSNN)

United States inventory (TSCA 8b)

Europe inventory (EINECS/ELINCS/NLP)

Canada inventory (DSL/NDSL)

At least one component is not listed in DSL but all such components are listed in NDSL.

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

Fragrance 30021828

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
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

- : H226 Flammable liquid and vapor.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

- : 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
 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3
 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

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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.

Fragrance 30021828