

# SAFETY DATA SHEET

**Fragrance 30021826**

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

### 1.1 Product identifier

**Product code** : Fragrance 30021826  
**Product name** : ENGLISH PEAR & FREESIA 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 30021826

## SECTION 2: Hazards identification

<b>Response</b>	: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Storage</b>	: Not applicable.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	: <ul style="list-style-type: none"> <li>2-phenylethanol</li> <li>dipentene</li> <li>3,7-dimethylnona-1,6-dien-3-ol</li> <li>linalyl acetate</li> <li>2-(4-tert-butylbenzyl)propionaldehyde</li> <li>α-methyl-1,3-benzodioxole-5-propionaldehyde</li> <li>geraniol</li> <li>α-hexylcinnamaldehyde</li> <li>pin-2(10)-ene</li> <li>pin-2(3)-ene</li> <li>citronellol</li> <li>1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one</li> </ul>
<b>Supplemental label elements</b>	: Not applicable.

## 2.3 Other hazards

<b>Other hazards which do not result in classification</b>	: 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
2-phenylethanol	REACH #: 01-2119963921-31 EC: 200-456-2 CAS: 60-12-8	15.00	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]
dipentene	EC: 205-341-0 CAS: 138-86-3 Index: 601-029-00-7	4.38	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]
(Z)-3-hexenyl salicylate	EC: 265-745-8 CAS: 65405-77-8	4.00	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
3,7-dimethylnona-1,6-dien-3-ol	REACH #: 01-2119969272-32 EC: 233-732-6 CAS: 10339-55-6	2.10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
linalyl acetate	REACH #: 01-2119454789-19 EC: 204-116-4 CAS: 115-95-7	1.80	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
2-(4-tert-butylbenzyl)propionaldehyde	REACH #: 01-2119485965-18 EC: 201-289-8 CAS: 80-54-6	1.70	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361f (Fertility) Aquatic Chronic 2, H411	[1]

## Fragrance 30021826

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

α-methyl-1,3-benzodioxole-5-propionaldehyde	EC: 214-881-6 CAS: 1205-17-0	1.65	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
geraniol	REACH #: 01-2119552430-49 EC: 203-377-1 CAS: 106-24-1	1.15	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
α-hexylcinnamaldehyde	REACH #: 01-2119533092-50 EC: 202-983-3 EC: 639-566-4 CAS: 101-86-0 CAS: 165184-98-5	1.10	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	[1]
A 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	1.00	Eye Irrit. 2, H319	[1]
pin-2(10)-ene	EC: 204-872-5 EC: 242-060-2 CAS: 127-91-3 CAS: 18172-67-3	0.63	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]
pin-2(3)-ene	EC: 201-291-9 CAS: 80-56-8	0.10	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]
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	EC: 245-833-2 CAS: 23696-85-7	0.10	Skin Sens. 1A, H317 Aquatic Chronic 2, H411 <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

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)** : 6.03%

## Fragrance 30021826

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

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

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

##### Potential acute health effects

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

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

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

### 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

## Fragrance 30021826

### SECTION 5: Firefighting measures

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

#### 5.3 Advice for firefighters

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

### SECTION 6: Accidental release measures

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

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

#### 6.2 Environmental precautions

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

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

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

#### 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.

## Fragrance 30021826

### SECTION 7: Handling and storage

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

#### 7.1 Precautions for safe handling

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

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

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

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

##### Danger criteria

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

#### 7.3 Specific end use(s)

- Recommendations** : Industrial use only.

### SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters

##### Occupational exposure limits

No exposure limit value known.

##### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
2-phenylethanol	DNEL	Long term Inhalation	59.9 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	21.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	17.7 mg/m <sup>3</sup>	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

## Fragrance 30021826

## SECTION 8: Exposure controls/personal protection

3,7-dimethylnona-1,6-dien-3-ol	DNEL	Long term Dermal	2.7 mg/kg	Workers	Systemic
	DNEL	Long term Inhalation	3 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	16 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Short term Dermal	16 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Short term Inhalation	18 mg/m <sup>3</sup>	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/m <sup>3</sup>	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/m <sup>3</sup>	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
	DNEL	Long term Inhalation	2.75 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	8 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Inhalation	0.68 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	0.2 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Dermal	1.25 mg/kg bw/day	Consumers	Systemic
linalyl acetate	DNEL	Short term Dermal	8 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Long term Dermal	8 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	8 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Long term Inhalation	0.44 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	0.41 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	2.075 mg/kg	Workers	Systemic
	DNEL	Long term Inhalation	0.11 mg/m <sup>3</sup>	Consumers	Systemic

2-(4-tert-butylbenzyl) propionaldehyde



## Fragrance 30021826

## SECTION 8: Exposure controls/personal protection

geraniol	DNEL	Long term Oral	0.0625 mg/kg	Consumers	Systemic
	DNEL	Long term Dermal	1.0375 mg/kg	Consumers	Systemic
	DNEL	Short term Dermal	0.41 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Long term Inhalation	161.6 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	12.5 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	11.8 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Oral	13.75 mg/kg	Consumers	Systemic
	DNEL	Long term Inhalation	47.8 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Dermal	7.5 mg/kg	Consumers	Systemic
	DNEL	Long term Dermal	11.8 mg/cm <sup>2</sup>	Consumers	Local
α-hexylcinnamaldehyde	DNEL	Short term Dermal	0.525 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Short term Inhalation	6.28 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	18.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.078 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.525 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Inhalation	0.019 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term Inhalation	4.7 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Long term Dermal	9 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Dermal	0.079 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Short term Dermal	0.079 mg/kg bw/day	Consumers	Local
A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol; trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	DNEL	Long term Oral	0.056 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	12.2 mg/m <sup>3</sup>	Workers	Systemic



## Fragrance 30021826

## SECTION 8: Exposure controls/personal protection

	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

## PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
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	-
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	-
linalyl acetate	Fresh water	0.011 mg/l	-
	Marine water	0.0011 mg/l	-
	Marine water sediment	0.0609 mg/kg	-
	Soil	0.115 mg/kg	-
	Sewage Treatment Plant	10 mg/l	-
	Intermittent release	0.11 mg/l	-
	Fresh water sediment	0.609 mg/kg	-
2-(4-tert-butylbenzyl)propionaldehyde	Fresh water	0.00204 mg/l	-
	Marine water	0.0002 mg/l	-
	Fresh water sediment	0.269 mg/kg	-
	Marine water sediment	0.0269 mg/kg	-
	Soil	0.0525 mg/kg	-

## Fragrance 30021826

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

$\alpha$ -hexylcinnamaldehyde	Sewage Treatment Plant	10 mg/l	-
	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	-
A 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	-
	Soil	0.0902 mg/kg	-
	Sewage Treatment Plant	10 mg/l	-

**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.

## Fragrance 30021826

### SECTION 8: Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

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

##### Appearance

- Physical state** : Liquid.
- Color** : Characteristic.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: 77°C
- Evaporation rate** : Not available.
- Upper/lower flammability or explosive limits** : Not available.
- Vapor pressure** : 0.17 hPa
- Vapor density** : Not available.
- Density** : 0.992 to 1.002 g/cm<sup>3</sup> [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<sup>2</sup>/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.

## Fragrance 30021826

## SECTION 10: Stability and reactivity

**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
2-phenylethanol	LD50 Dermal	Rabbit	2535 mg/kg	-
	LD50 Oral	Rat	1609 mg/kg	-
dipentene	LD50 Oral	Rat	5300 mg/kg	-
(Z)-3-hexenyl salicylate	LD50 Dermal	Rabbit	>5 g/kg	-
3,7-dimethylnona-1,6-dien-3-ol	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5 g/kg	-
linalyl acetate	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	13934 mg/kg	-
2-(4-tert-butylbenzyl) propionaldehyde	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	1390 mg/kg	-
α-methyl-1,3-benzodioxole-5-propionaldehyde	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	3600 mg/kg	-
geraniol	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3600 mg/kg	-
α-hexylcinnamaldehyde	LC50 Inhalation Dusts and mists	Rat	>2100 mg/m <sup>3</sup>	8 hours
	LD50 Oral	Rat	3100 mg/kg	-
A 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	-
pin-2(10)-ene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4700 mg/kg	-
pin-2(3)-ene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3700 mg/kg	-
1-(2,6,6-trimethyl-1,	LD50 Oral	Rat	>2000 mg/kg	-

## Fragrance 30021826

## SECTION 11: Toxicological information

3-cyclohexadien-1-yl)  
-2-buten-1-one

## Acute toxicity estimates

Route	ATE value
Oral	9482.9 mg/kg

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-phenylethanol	Eyes - Mild irritant	Rabbit	-	10 minutes 12 Grams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
3,7-dimethylnona-1,6-dien-3-ol	Eyes - Mild irritant	Rabbit	-	0.05 Percent	-
	Eyes - Moderate irritant	Rabbit	-	0.1 Milliliters	-
	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 Milliliters	-
	Skin - Moderate irritant	Rabbit	-	10 Grams	-
linalyl acetate	Skin - Moderate irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
2-(4-tert-butylbenzyl) propionaldehyde	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
geraniol	Skin - Mild irritant	Guinea pig	-	30 Percent	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Human	-	48 hours 32 Percent	-
	Skin - Severe irritant	Man	-	24 hours 16 milligrams	-
	Skin - Moderate irritant	Rabbit	-	4 hours 0.5 Milliliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	-	-
pin-2(3)-ene	Skin - Severe irritant	Man	-	100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-

## Fragrance 30021826

## SECTION 11: Toxicological information

				milligrams	
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Sensitization

Product/ingredient name	Route of exposure	Species	Result
3,7-dimethylnona-1,6-dien-3-ol	skin	Man	Not sensitizing
2-(4-tert-butylbenzyl) propionaldehyde	skin	Mouse	Sensitizing
	skin	Human	Sensitizing
geraniol	skin	Mouse	Sensitizing
$\alpha$ -hexylcinnamaldehyde	skin	Mouse	Sensitizing
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	skin	Guinea pig	Not sensitizing


Mutagenicity

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

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
2-(4-tert-butylbenzyl) propionaldehyde	-	Positive	-	Dog - Male	Oral	-

Aspiration hazard

Product/ingredient name	Result
 dipentene	ASPIRATION HAZARD - Category 1
pin-2(10)-ene	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.

## Fragrance 30021826

### SECTION 11: Toxicological information

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

##### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

##### Long term exposure

**Potential immediate effects** : Not available.

**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
2-phenylethanol	Acute EC50 287 mg/l	Daphnia	48 hours
	Acute LC50 460 mg/l	Fish	96 hours
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




## Fragrance 30021826

## SECTION 12: Ecological information

(Z)-3-hexenyl salicylate	Acute EC50 0.61 mg/l	Algae	72 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
linalyl acetate	Acute EC50 15 mg/l	Daphnia	48 hours
	Acute LC50 11 mg/l	Fish	96 hours
2-(4-tert-butylbenzyl) propionaldehyde	Acute EC50 29.16 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 10.7 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 2.04 mg/l	Fish - Brachydanio rerio	96 hours
$\alpha$ -methyl-1,3-benzodioxole-5-propionaldehyde	Acute EC50 8.3 mg/l	Daphnia	48 hours
geraniol	Acute EC50 13.1 mg/l	Algae	72 hours
	Acute EC50 7.75 mg/l	Daphnia	48 hours
	Acute LC50 22 mg/l	Fish	96 hours
$\alpha$ -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
A 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
pin-2(10)-ene	Acute EC50 0.7 mg/l	Algae	72 hours
	Acute EC50 0.86 mg/l	Daphnia	48 hours
	Acute LC50 0.68 mg/l	Fish	96 hours
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Acute LC50 1.49 mg/l	Daphnia	48 hours

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
 -phenylethanol	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	79 % - Readily - 28 days	-	-
(Z)-3-hexenyl salicylate	OECD 301F Ready Biodegradability - Manometric	89 % - Readily - 28 days	-	-

## Fragrance 30021826

## SECTION 12: Ecological information

	Respirometry Test			
3,7-dimethylnona-1,6-dien-3-ol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	91 % - Readily - 28 days	-	-
linalyl acetate	OECD 301F Ready Biodegradability - Manometric Respirometry Test	75 % - Readily - 28 days	-	-
2-(4-tert-butylbenzyl) propionaldehyde	OECD 301F Ready Biodegradability - Manometric Respirometry Test	84 % - Readily - 28 days	-	Activated sludge
$\alpha$ -methyl-1,3-benzodioxole-5-propionaldehyde	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	29 % - Not readily - 28 days	-	-
geraniol	OECD 301A Ready Biodegradability - DOC Die-Away Test	100 % - Readily - 28 days	-	-
$\alpha$ -hexylcinnamaldehyde	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97 % - Readily - 28 days	-	-
A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol; trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	0 % - Not readily - 28 days	-	-
pin-2(10)-ene	OECD 301D Ready Biodegradability - Closed Bottle Test	1 % - Not 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-1,3-cyclohexadien-1-yl)-2-buten-1-one	OECD 301C Ready Biodegradability -	0 % - Not readily - 28 days	-	-

## Fragrance 30021826

## SECTION 12: Ecological information

	Modified MITI Test (I)			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
2-phenylethanol	-	-	Readily	
(Z)-3-hexenyl salicylate	-	-	Readily	
3,7-dimethylnona-1,6-dien-3-ol	-	-	Readily	
linalyl acetate	-	-	Readily	
2-(4-tert-butylbenzyl) propionaldehyde	-	-	Readily	
$\alpha$ -methyl-1,3-benzodioxole-5-propionaldehyde	-	-	Not readily	
geraniol	-	-	Readily	
$\alpha$ -hexylcinnamaldehyde	-	-	Readily	
A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol; trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	-	-	Not readily	
pin-2(10)-ene	-	-	Not readily	
pin-2(3)-ene	-	-	Not readily	
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	-	-	Not readily	

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2-phenylethanol	1.36	-	low
dipentene	4.57	-	high
(Z)-3-hexenyl salicylate	4.8	-	high
3,7-dimethylnona-1,6-dien-3-ol	3.3	-	low
linalyl acetate	3.9	173.9	low
2-(4-tert-butylbenzyl) propionaldehyde	4.2	349.8	low
$\alpha$ -methyl-1,3-benzodioxole-5-propionaldehyde	1.368	-	low
geraniol	2.6	-	low
$\alpha$ -hexylcinnamaldehyde	5.3	6000	high
A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol; trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	1.65	-	low

## Fragrance 30021826

**SECTION 12: Ecological information**

pin-2(10)-ene	4.425	1163	high
pin-2(3)-ene	4.83	1845	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.

**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
<b>14.1 UN number</b>	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dipentene, (Z)-3-hexenyl salicylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dipentene, (Z)-3-hexenyl salicylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dipentene, (Z)-3-hexenyl salicylate)
<b>14.3 Transport hazard class(es)</b>	9 	9 	9 

## Fragrance 30021826

**SECTION 14: Transport information**

<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>	Yes.	Marine pollutant	Yes.
<b>Additional information</b>	<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><b>Tunnel code</b> (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.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
2-(4-tert-butylbenzyl) propionaldehyde	-	-	-	Repr. 2, H361f (Fertility)

**Registration status**

**All components are listed** : Australia inventory (AICS)  
China inventory (IECSC)  
Japan inventory  
Philippines inventory (PICCS)  
Taiwan inventory (CSNN)  
United States inventory (TSCA 8b)


## Fragrance 30021826

**SECTION 15: Regulatory information**Europe inventory (EINECS/ELINCS/  
NLP)

Canada inventory (DSL)

**15.2 Chemical Safety  
Assessment**

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

**SECTION 16: Other information**
 Indicates information that has changed from previously issued version.
**Abbreviations and  
acronyms**

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

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

Classification	Justification
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.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H361f Suspected of damaging fertility.  
 (Fertility)  
 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.

**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  
 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1  
 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3  
 Repr. 2, H361f (Fertility) TOXIC TO REPRODUCTION (Fertility) - 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

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## Fragrance 30021826

### SECTION 16: Other information

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.