

SAFETY DATA SHEET

Air Wick Scented Oil Electrical Plug-In Refill White Peony & Jasmine Blossom

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

1.1 Product identifier

Product name : Air Wick Scented Oil Electrical Plug-In Refill White Peony & Jasmine Blossom
SDS no. : D8409263
Formulation # : 3308361 / 3337774 / 3337775
Product type : Liquid.

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

Identified uses

Air care, continuous action (solid and liquid)
Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier

The United Kingdom:

RB UK Hygiene Home Commercial Ltd
Turner House
103 - 105 Bath Road
Slough
Berkshire
SL1 3UH
Tel: 0800 376 8181
Email: ConsumerCare@reckitt.com

The Republic Of Ireland:

E.H. Group B.V.
Schiphol Boulevard 267
1118 BH Schiphol
Netherlands
Tel: 01 661 7318
Email: ConsumerCare@reckitt.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : **GB** - NHS 111/NHS 24 Tel: 111
NI - www.gpoutofhours.hscni.net/
IE - Poisons Information Centre of Ireland: 01 809 2166 8am-10pm 7 days a week

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 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

D8409263

SECTION 2: Hazards identification

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

2.2 Label elements

Hazard pictograms :



Signal word :

Warning

Hazard statements :

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.

Precautionary statements

General :

Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention :

Not applicable

Response :

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage :

Not applicable.

Disposal :

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients :

LIMONENE
CITRONELLOL
LINALOOL
ETHYL LINALOOL

Supplemental label elements :

Contains Hydroxycitronellal, Hexyl cinnamal, Alpha-isomethyl Ionone, Isocyclocitral, Methoxyhydratropaldehyde, Cinnamyl Alcohol, Amyl Cinnamal, Ethyl 2,2-dimethylhydrocinnamal, 2,4-Dimethyl-3-cyclohexene Carboxaldehyde, Coumarin, Methyl dihydroxy-dimethylbenzoate, Rose Ketone-4 and Cinnamal. May produce an allergic reaction.

Special packaging requirements

Containers to be fitted with child-resistant fastenings :

Not applicable.

Tactile warning of danger :

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII :

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification :

None known.

D8409263

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
BENZYL ACETATE	REACH #: 01-2119638272-42 EC: 205-399-7 CAS: 140-11-4	≥5 - ≤10	Aquatic Chronic 3, H412	-	[1] [2]
3,5,5-trimethylhexyl acetate	REACH #: 01-2119972325-34 EC: 261-245-9 CAS: 58430-94-7	≥3 - ≤5	Skin Irrit. 2, H315 Aquatic Chronic 2, H411	-	[1]
LIMONENE	REACH #: 01-2119529223-47 EC: 227-813-5 CAS: 5989-27-5 Index: 601-096-00-2	≥3 - ≤5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol; trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	REACH #: 01-0000015458-64 EC: 405-040-6 CAS: 63500-71-0 Index: 603-101-00-3	≥1 - ≤3	Eye Irrit. 2, H319	-	[1]
CITRONELLOL	REACH #: 01-2119453995-23 EC: 203-375-0 CAS: 106-22-9	≥1 - ≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
2-T-BUTYLCYCLOHEXYL ACETATE	EC: 201-828-7 CAS: 88-41-5	≥1 - ≤3	Aquatic Chronic 2, H411	-	[1]
LINALOOL	REACH #: 01-2119474016-42 EC: 201-134-4 CAS: 78-70-6 Index: 603-235-00-2	≥1 - ≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
GAMMA-UNDECALACTONE	REACH #: 01-2119959333-34 EC: 203-225-4 CAS: 104-67-6	≥1 - ≤3	Aquatic Chronic 3, H412	-	[1]
PHENETHYL ALCOHOL	REACH #: 01-2119963921-31 EC: 200-456-2 CAS: 60-12-8	≥1 - ≤3	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE [Oral] = 1603 mg/kg	[1]
4-cyclohexyl-2-methyl-2-butanol	REACH #: 01-0000016725-66 EC: 420-630-3 CAS: 83926-73-2 Index: 603-174-00-1	≥1 - <3	Eye Dam. 1, H318 Aquatic Chronic 2, H411	-	[1]
ETHYL LINALOOL	EC: 233-732-6 CAS: 10339-55-6	≥1 - ≤3	Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
HYDROXYCITRONELLAL	REACH #: 01-2119973482-31	≥0.3 - <1	Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]

D8409263

SECTION 3: Composition/information on ingredients

4-METHYL-3-DECEN-5-OL	EC: 203-518-7 CAS: 107-75-5 REACH #: 01-2119983528-21 EC: 279-815-0 CAS: 81782-77-6	≥0.3 - <1	Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1]
HEXYL CINNAMAL	EC: 202-983-3 CAS: 101-86-0	≥0.3 - <1	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1]
ALPHA-ISOMETHYL IONONE	REACH #: 01-2120138569-45 EC: 204-846-3 CAS: 127-51-5	≥0.3 - <1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
ISOCYCLOCITRAL	EC: 215-638-7 CAS: 1335-66-6	≥0.3 - <1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
CINNAMYL ALCOHOL	REACH #: 01-2119934496-29 EC: 203-212-3 CAS: 104-54-1	≤0.3	Acute Tox. 4, H302 Skin Sens. 1B, H317	ATE [Oral] = 2000 mg/kg	[1]
AMYL CINNAMAL	REACH #: 01-2120740487-49 EC: 204-541-5 CAS: 122-40-7	≤0.3	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
3-(p-methoxyphenyl) -2-methylpropionaldehyde	EC: 226-749-5 CAS: 5462-06-6	≤0.3	Skin Sens. 1B, H317	-	[1]
COUMARIN	REACH #: 01-2119943756-26 EC: 202-086-7 CAS: 91-64-5	≤0.3	Acute Tox. 3, H301 Skin Sens. 1B, H317	ATE [Oral] = 100 mg/kg	[1]
2,4-DIMETHYL- 3-CYCLOHEXENE CARBOXALDEHYDE	EC: 268-264-1 CAS: 68039-49-6	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
DIMETHYLTETRAHYDRO BENZALDEHYDE	EC: 272-113-5 CAS: 68737-61-1	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
ETHYL 2,2-DIMETHYLHYDROCINNAMAL	REACH #: 01-2120758796-34 EC: 266-819-2 CAS: 67634-15-5	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1]
methyl 2,4-dihydroxy- 3,6-dimethylbenzoate	REACH #: 01-2120762759-36 EC: 225-193-0 CAS: 4707-47-5	≤0.3	Skin Sens. 1B, H317	-	[1]
1-Naphthalenol, 1,2,3,4,4a, 5,8,8a-octahydro-	REACH #: 01-0000018107-74	≤0.3	Skin Irrit. 2, H315 Aquatic Acute 1, H400	M [Acute] = 1 M [Chronic] = 1	[1]

D8409263

SECTION 3: Composition/information on ingredients

2,2,6,8-tetramethyl-	CAS: 103614-86-4		Aquatic Chronic 1, H410		
Oils, eucalyptus	CAS: 8000-48-4	≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
ROSE KETONE-4	REACH #: 01-2120105798-49 EC: 245-833-2 CAS: 23696-85-7	<0.1	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
CINNAMAL	REACH #: 01-2119935242-45 EC: 203-213-9 CAS: 104-55-2	<0.01	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1850 mg/kg ATE [Dermal] = 1100 mg/kg Skin Sens. 1, H317: C ≥ 0.01%	[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, vPvBs or Substances of equivalent concern, 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

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

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. 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

D8409263

SECTION 4: First aid measures

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

Over-exposure signs/symptoms

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.

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 : This material is harmful 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 combustion 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 spill material. Avoid breathing vapour 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 spilt 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.

6.3 Methods and material 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 the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

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 vapour 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

D8409263

SECTION 7: Handling and storage

7.3 Specific end use(s)

- Recommendations** : Air care, continuous action (solid and liquid)
Consumer use
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

BENZYL ACETATE

NAOSH (Ireland, 5/2021) Notes: Advisory Occupational Exposure Limit Values (OELVs)
OELV 8 hours: 10 ppm.

Biological exposure indices

No exposure indices known.

- Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
BENZYL ACETATE	DNEL	Long term Oral	1.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.2 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	9 mg/m ³	Workers	Systemic
3,5,5-trimethylhexyl acetate	DNEL	Long term Oral	0.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.4 mg/m ³	General population	Systemic
LIMONENE	DNEL	Long term Inhalation	5.64 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	66.7 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	9.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	16.6 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	4.8 mg/kg bw/day	General population	Systemic

D8409263

SECTION 8: Exposure controls/personal protection

A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol; trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	DNEL	Long term Oral	4.8 mg/kg bw/day	[Consumers] General population	Systemic	
	DNEL	Long term Oral	4.8 mg/kg bw/day	[Consumers] General population	Systemic	
	DNEL	Long term Dermal	4.8 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	9.5 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	16.6 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	66.7 mg/m ³	Workers	Systemic	
	DNEL	Long term Oral	7.5 mg/kg bw/day	General population	Systemic	
	CITRONELLOL	DNEL	Long term Inhalation	13 mg/m ³	General population	Systemic
		DNEL	Long term Dermal	25 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	41.7 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	44.1 mg/m ³	Workers	Systemic
		DNEL	Long term Inhalation	161.6 mg/m ³	Workers	Systemic
		DNEL	Long term Dermal	327.4 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	47.8 mg/m ³	General population	Systemic
		DNEL	Long term Dermal	196.4 mg/kg bw/day	[Consumers] General population	Systemic
		DNEL	Long term Oral	13.8 mg/kg bw/day	[Consumers] General population	Systemic
		DNEL	Short term Dermal	2.95 mg/cm ²	[Consumers] General population	Local
		DNEL	Short term Dermal	2.95 mg/cm ²	Workers	Local
		DNEL	Short term Inhalation	10 mg/m ³	General population	Local
		DNEL	Long term Inhalation	10 mg/m ³	General population	Local
DNEL		Short term Inhalation	10 mg/m ³	Workers	Local	
DNEL	Long term Inhalation	10 mg/m ³	Workers	Local		
LINALOOL	DNEL	Long term Oral	13.8 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	47.8 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	161.6 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	196.4 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	327.4 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Dermal	15 mg/cm ²	Workers	Local	
	DNEL	Short term Dermal	15 mg/cm ²	Workers	Local	

D8409263

SECTION 8: Exposure controls/personal protection

GAMMA-UNDECALACTONE	DNEL	Long term Dermal	15 mg/cm ²	General population [Consumers] Workers	Local Systemic	
	DNEL	Short term Oral	1.2 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	1.25 mg/ kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	1.5 mg/cm ²	General population	Local	
	DNEL	Long term Dermal	1.5 mg/cm ²	General population	Local	
	DNEL	Long term Oral	2.49 mg/ kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	3 mg/cm ²	Workers	Local	
	DNEL	Long term Dermal	3 mg/cm ²	Workers	Local	
	DNEL	Long term Dermal	3.5 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	4.33 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	24.58 mg/ m ³	Workers	Systemic	
	DNEL	Long term Inhalation	19 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	5.38 mg/ kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	4.68 mg/m ³	General population [Consumers]	Systemic	
	DNEL	Long term Oral	2.7 mg/kg bw/day	General population [Consumers]	Systemic	
	PHENETHYL ALCOHOL	DNEL	Long term Oral	2.7 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	2.7 mg/kg bw/day	General population	Systemic
DNEL		Long term Inhalation	4.68 mg/m ³	General population	Systemic	
DNEL		Long term Dermal	5.38 mg/ kg bw/day	Workers	Systemic	
DNEL		Long term Inhalation	19 mg/m ³	Workers	Systemic	
DNEL		Long term Inhalation	59.9 mg/m ³	Workers	Systemic	
DNEL		Long term Dermal	21.2 mg/ kg bw/day	Workers	Systemic	
DNEL		Long term Inhalation	17.7 mg/m ³	General population [Consumers]	Systemic	
DNEL		Long term Dermal	12.7 mg/ kg bw/day	General population [Consumers]	Systemic	
DNEL		Long term Oral	5.1 mg/kg bw/day	General population [Consumers]	Systemic	
DNEL		Short term Oral	5.1 mg/kg bw/day	General population	Systemic	
DNEL		Long term Oral	5.1 mg/kg bw/day	General population	Systemic	
DNEL		Long term Dermal	12.7 mg/ kg bw/day	General population	Systemic	
DNEL	Long term Inhalation	17.7 mg/m ³	General population	Systemic		
DNEL	Long term Dermal	21.2 mg/ kg bw/day	Workers	Systemic		

D8409263

SECTION 8: Exposure controls/personal protection

ETHYL LINALOOL	DNEL	Long term Inhalation	kg bw/day 59.9 mg/m ³	Workers	Systemic	
	DNEL	Long term Oral	0.2 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	0.74 mg/m ³	General population	Systemic	
	DNEL	Short term Oral	1.3 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	1.4 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	1.6 mg/cm ²	General population	Local	
	DNEL	Long term Dermal	1.6 mg/cm ²	General population	Local	
	DNEL	Short term Dermal	1.6 mg/cm ²	Workers	Local	
	DNEL	Long term Dermal	1.6 mg/cm ²	Workers	Local	
	DNEL	Short term Dermal	2.7 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	2.7 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	3 mg/m ³	Workers	Systemic	
	DNEL	Short term Inhalation	4.4 mg/m ³	General population	Systemic	
	DNEL	Short term Dermal	5.5 mg/kg bw/day	Workers	Systemic	
HYDROXYCITRONELLAL	DNEL	Short term Inhalation	18 mg/m ³	Workers	Systemic	
	DNEL	Short term Dermal	0.5 mg/cm ²	General population	Local	
	DNEL	Short term Dermal	0.5 mg/cm ²	Workers	Local	
	DNEL	Long term Oral	0.6 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	1.1 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	1.9 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	5.4 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	18 mg/m ³	Workers	Systemic	
	4-METHYL-3-DECEN-5-OL	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
		DNEL	Short term Oral	5 mg/kg bw/day	General population	Systemic
DNEL		Short term Dermal	5 mg/kg bw/day	General population	Systemic	
DNEL		Short term Inhalation	8.7 mg/m ³	General population	Systemic	
DNEL		Long term Oral	10 mg/kg bw/day	General population	Systemic	
DNEL		Short term Dermal	10 mg/kg bw/day	Workers	Systemic	
DNEL		Long term Dermal	10 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Dermal	12.5 mg/ cm ²	General population	Local	
DNEL		Long term Dermal	12.5 mg/ cm ²	General population	Local	
DNEL		Long term Inhalation	14.38 mg/ m ³	General population	Systemic	
DNEL	Short term	21.74 mg/	General	Local		

D8409263

SECTION 8: Exposure controls/personal protection

ALPHA-ISOMETHYL IONONE	DNEL	Inhalation Long term	m ³ 21.74 mg/ m ³	population General population	Local	
	DNEL	Inhalation Short term	m ³ 25 mg/cm ²	Workers	Local	
	DNEL	Dermal Long term	25 mg/cm ²	Workers	Local	
	DNEL	Dermal Short term	35.26 mg/ m ³	Workers	Systemic	
	DNEL	Inhalation Short term	88.16 mg/ m ³	Workers	Local	
	DNEL	Inhalation Long term	88.16 mg/ m ³	Workers	Local	
	DNEL	Inhalation Long term	98.7 mg/m ³	Workers	Systemic	
	DNEL	Inhalation Long term	35.5 µg/kg bw/day	General population	Systemic	
	DNEL	Dermal Long term	44.6 µg/kg bw/day	General population	Systemic	
	DNEL	Dermal Long term	0.375 mg/ kg bw/day	Workers	Systemic	
	DNEL	Inhalation Long term	1.45 mg/m ³	General population	Systemic	
	DNEL	Inhalation Long term	8.22 mg/m ³	Workers	Systemic	
	CINNAMYL ALCOHOL	DNEL	Oral Long term	0.268 mg/ kg bw/day	General population	Systemic
		DNEL	Dermal Long term	0.268 mg/ kg bw/day	General population	Systemic
DNEL		Inhalation Long term	0.465 mg/ m ³	General population	Systemic	
DNEL		Dermal Long term	0.749 mg/ kg bw/day	Workers	Systemic	
DNEL		Inhalation Long term	2.64 mg/m ³	Workers	Systemic	
3-(p-methoxyphenyl) -2-methylpropionaldehyde		DNEL	Oral Long term	1.08 mg/ kg bw/day	General population	Systemic
		DNEL	Dermal Long term	1.08 mg/ kg bw/day	General population	Systemic
		DNEL	Dermal Long term	1.8 mg/kg bw/day	Workers	Systemic
		DNEL	Inhalation Long term	1.88 mg/m ³	General population	Systemic
		DNEL	Dermal Long term	3.9923 mg/ cm ²	General population	Local
	DNEL	Dermal Long term	3.9923 mg/ cm ²	Workers	Local	
	DNEL	Inhalation Long term	6.35 mg/m ³	Workers	Systemic	
	COUMARIN	DNEL	Oral Long term	0.39 mg/ kg bw/day	General population	Systemic
		DNEL	Dermal Long term	0.39 mg/ kg bw/day	General population	Systemic
		DNEL	Dermal Long term	0.79 mg/ kg bw/day	Workers	Systemic
DNEL		Inhalation Long term	1.69 mg/m ³	General population	Systemic	
DNEL		Inhalation Long term	6.78 mg/m ³	Workers	Systemic	
methyl 2,4-dihydroxy- 3,6-dimethylbenzoate		DNEL	Dermal Long term	1.25 mg/ cm ²	General population	Local
	DNEL	Dermal Long term	2.5 mg/cm ²	Workers	Local	
	CINNAMAL	DNEL	Inhalation Long term	21.878 mg/ m ³	Workers	Systemic
		DNEL	Dermal Long term	1.562 mg/ m ³	Workers	Systemic

D8409263

SECTION 8: Exposure controls/personal protection

	DNEL	Long term Inhalation	kg bw/day 2.605 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	0.186 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.083 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	0.54347826 mg/m ³	General population	Systemic
	DNEL	Long term Oral	0.625 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.625 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.75 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.2039474 mg/m ³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
LIMONENE	Fresh water	14 µg/l	Assessment Factors
	Marine water	1.4 µg/l	Assessment Factors
	Sewage Treatment Plant	1.8 mg/l	Assessment Factors
CITRONELLOL	Fresh water sediment	3.85 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.385 mg/kg dwt	Equilibrium Partitioning
	Soil	0.763 mg/kg	Equilibrium Partitioning
LINALOOL	Fresh water	0.002 mg/l	Assessment Factors
	Marine water	0 mg/l	Assessment Factors
	Soil	0.004 mg/kg dwt	Equilibrium Partitioning
GAMMA-UNDECALACTONE	Fresh water	0.2 mg/l	Assessment Factors
	Marine water	0.02 mg/l	Assessment Factors
	Sewage Treatment Plant	10 mg/l	Assessment Factors
PHENETHYL ALCOHOL	Fresh water	17.52 µg/l	Assessment Factors
	Marine water	1.75 µg/l	Assessment Factors
	Sewage Treatment Plant	80 mg/l	Assessment Factors
CINNAMAL	Fresh water	0.215 mg/l	Assessment Factors
	Marine water	0.021 mg/l	Assessment Factors
	Sewage Treatment Plant	10 mg/l	Assessment Factors
	Fresh water sediment	1.454 mg/kg	Equilibrium Partitioning
	Marine water sediment	0.145 mg/kg	Equilibrium Partitioning
	Soil	0.164 mg/kg	Equilibrium Partitioning
	Fresh water	1.004 mg/l	Assessment Factors
Marine water	0.1 mg/l	Assessment Factors	
CINNAMAL	Fresh water sediment	159.185 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	159.185 mg/kg dwt	Equilibrium Partitioning
	Soil	56.085 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	0 mg/kg	Assessment Factors

8.2 Exposure controls

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

Individual protection measures

SECTION 8: Exposure controls/personal protection

- 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** : EN 16523-1:2015
Tested for protection against chemical permeation.
Low chemical resistant or waterproof gloves.
(EN 16523-1:2015 supersedes EN 374-3:2003)
EN 374-2:2003
Tested for protection against liquid penetration and micro-organisms.
EN 388:2003
Tested for protection against mechanical risks (abrasion, blade cut resistance, tear resistance and puncture resistance).
ISO 374-1:2016/Type A
Protective glove with permeation resistance of at least 30 minutes each for at least 6 test chemicals.
ISO 374-1:2016/Type B
Protective glove with permeation resistance of at least 30 minutes each for at least 3 test chemicals.
ISO 374-1:2016/Type C
Protective glove with permeation resistance of at least 10 minutes for at least 1 test chemical. 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Colour** : Colourless to light yellow.
- Odour** : Fragrant.
- Melting point/freezing point** : Not relevant/applicable due to nature of the product.

D8409263

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	: Not relevant/applicable due to nature of the product.
Flammability (solid, gas)	: Not relevant/applicable due to nature of the product.
Upper/lower flammability or explosive limits	: Not relevant/applicable due to nature of the product.
Flash point	: Closed cup: 75°C (167°F)
Auto-ignition temperature	: Not relevant/applicable due to nature of the product.
Decomposition temperature	: Not relevant/applicable due to nature of the product.
pH	: Not applicable. Product is non-soluble (in water).
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): Not available.
Solubility	Not available.
Solubility in water	: Not relevant/applicable due to nature of the product.
Partition coefficient n-octanol/water (log Pow)	: Not relevant/applicable due to nature of the product.
Vapour pressure	: Not relevant/applicable due to nature of the product.
Relative vapour density	: Not relevant/applicable due to nature of the product.
Particle characteristics	
Median particle size	: Not relevant/applicable due to nature of the product.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

9.2.2 Other safety characteristics

Not applicable.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

D8409263

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
BENZYL ACETATE	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	2490 mg/kg	-
3,5,5-trimethylhexyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	4250 mg/kg	-
LIMONENE	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4400 mg/kg	-
CITRONELLOL	LD50 Dermal	Rabbit	2650 mg/kg	-
	LD50 Oral	Rat	3450 mg/kg	-
2-T-BUTYLCYCLOHEXYL ACETATE	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
LINALOOL	LD50 Dermal	Rabbit	5610 mg/kg	-
	LD50 Dermal	Rat	5610 mg/kg	-
	LD50 Oral	Rat	2790 mg/kg	-
	LD50 Oral	Rat	18500 mg/kg	-
GAMMA-UNDECALACTONE	LD50 Dermal	Rabbit	805 mg/kg	-
PHENETHYL ALCOHOL	LD50 Dermal	Rabbit - Male, Female	2535 mg/kg	-
	LD50 Oral	Rat - Male, Female	1603 mg/kg	-
ETHYL LINALOOL	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5 g/kg	-
HYDROXYCITRONELLAL	LD50 Oral	Rat	>5000 mg/kg	-
HEXYL CINNAMAL	LD50 Oral	Rat	3100 mg/kg	-
ALPHA-ISOMETHYL IONONE	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ISOCYCLOCITRAL	LD50 Oral	Rat	4500 mg/kg	-
CINNAMYL ALCOHOL	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	2 g/kg	-
AMYL CINNAMAL	LD50 Oral	Rat	3730 mg/kg	-
3-(p-methoxyphenyl)-2-methylpropionaldehyde	LD50 Dermal	Rabbit	>5 g/kg	-
ETHYL 2,2-DIMETHYLHYDROCINNAMAL	LD50 Dermal	Rabbit	>5 g/kg	-
Oils, eucalyptus	LD50 Dermal	Rabbit	2480 mg/kg	-
	LD50 Oral	Rat	2480 mg/kg	-
CINNAMAL	LD50 Dermal	Rabbit	620 mg/kg	-
	LD50 Oral	Rat	1850 mg/kg	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
FIL,AWICK,SUNRAY LE EU SOLO_3308361_D8409263 (EU)	40008.8	N/A	N/A	N/A	N/A
BENZYL ACETATE	2490	N/A	N/A	N/A	N/A
3,5,5-trimethylhexyl acetate	4250	N/A	N/A	N/A	N/A
LIMONENE	4400	N/A	N/A	N/A	N/A
CITRONELLOL	3450	2650	N/A	N/A	N/A
2-T-BUTYLCYCLOHEXYL ACETATE	4600	N/A	N/A	N/A	N/A
LINALOOL	2790	5610	N/A	N/A	N/A
GAMMA-UNDECALACTONE	18500	N/A	N/A	N/A	N/A
PHENETHYL ALCOHOL	1603	2500	N/A	N/A	N/A
ETHYL LINALOOL	5000	N/A	N/A	N/A	N/A
HEXYL CINNAMAL	3100	N/A	N/A	N/A	N/A
ISOCYCLOCITRAL	4500	N/A	N/A	N/A	N/A
CINNAMYL ALCOHOL	2000	N/A	N/A	N/A	N/A

D8409263

SECTION 11: Toxicological information

AMYL CINNAMAL	3730	N/A	N/A	N/A	N/A
3-(p-methoxyphenyl)-2-methylpropionaldehyde	2500	N/A	N/A	N/A	N/A
COUMARIN	100	N/A	N/A	N/A	N/A
2,4-DIMETHYL-3-CYCLOHEXENE	2500	N/A	N/A	N/A	N/A
CARBOXALDEHYDE					
DIMETHYLTETRAHYDRO BENZALDEHYDE	2500	2500	N/A	N/A	N/A
Oils, eucalyptus	2480	2480	N/A	N/A	N/A
ROSE KETONE-4	N/A	2500	N/A	N/A	N/A
CINNAMAL	1850	1100	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
LIMONENE	Skin - Mild irritant	Rabbit	-	24 hours 10 %	-
CITRONELLOL	Eyes - Moderate irritant	Rabbit	-	0.42 %	-
	Skin - Moderate irritant	Man	-	48 hours 16 mg	-
	Skin - Moderate irritant	Rabbit	-	4 hours 0.42 %	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 mg	-
	Skin - Severe irritant	Rabbit	-	4 hours 0.5 MI	-
LINALOOL	Skin - Severe irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	1 hours 0.1 MI	-
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Skin - Mild irritant	Human	-	72 hours 32 %	-
	Skin - Mild irritant	Man	-	48 hours 16 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Guinea pig	-	24 hours 100 mg	-
PHENETHYL ALCOHOL	Skin - Severe irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Mild irritant	Rabbit	-	10 minutes	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750 ug	-
	Skin - Mild irritant	Guinea pig	-	100 %	-
	Skin - Moderate irritant	Guinea pig	-	24 hours 100 mg	-
ETHYL LINALOOL	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Mild irritant	Rabbit	-	0.05 %	-
	Eyes - Moderate irritant	Rabbit	-	0.1 MI	-
	Skin - Mild irritant	Rabbit	-	24 hours 0.05 %	-
	Skin - Mild irritant	Rabbit	-	5 %	-
	Skin - Moderate irritant	Rabbit	-	4 hours 0.5 MI	-
	Skin - Moderate irritant	Rabbit	-	10 g	-
HYDROXYCITRONELLAL	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 100 uL	-
4-METHYL-3-DECEN-5-OL	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Guinea pig	-	48 hours 0.1 %	-

D8409263

SECTION 11: Toxicological information

HEXYL CINNAMAL	Skin - Mild irritant Skin - Moderate irritant	Guinea pig Rabbit	- -	10 % 24 hours 500 mg	- -
	Skin - Severe irritant	Guinea pig	-	24 hours 100 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 mg	-
ISOCYCLOCITRAL	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
CINNAMYL ALCOHOL	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
AMYL CINNAMAL	Skin - Mild irritant	Guinea pig	-	336 hours 5 %	-
	Skin - Moderate irritant	Guinea pig	-	24 hours 100 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 mg	-
Oils, eucalyptus	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
CINNAMAL	Skin - Severe irritant	Human	-	48 hours 40 mg	-

Conclusion/Summary

- Skin** : Calculation method Irritating to skin.
Eyes : Calculation method Irritating to eyes.
Respiratory : Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

- Conclusion/Summary** :
Skin : Calculation method Sensitiser to skin
Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Carcinogenicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Reproductive toxicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Teratogenicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
LIMONENE Oils, eucalyptus	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure : Not available.

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.

D8409263

SECTION 11: Toxicological information

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

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

Ingestion : No specific data.

Delayed and immediate effects as well as 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

Not available.

Conclusion/Summary : Based on available data, the classification criteria are not met.

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.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
LIMONENE	Acute EC50 421 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 688 µg/l Fresh water	Fish - <i>Pimephales promelas</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
LINALOOL	Acute EC50 36.7 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 28.8 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
PHENETHYL ALCOHOL	LC50 215 mg/l	Fish	96 hours
	Acute LC50 13500 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
COUMARIN	Acute LC50 56000 µg/l Fresh water	Fish - <i>Poecilia reticulata</i>	96 hours
	Acute EC50 143.96 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
Oils, eucalyptus	Acute EC50 143.96 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
CINNAMAL	Acute EC50 7.05 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

D8409263

SECTION 12: Ecological information

	Acute LC50 1.67 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
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Conclusion/Summary : Calculation method Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
LINALOOL	-	62.4 % - Readily - 28 days	-	-
GAMMA-UNDECALACTONE	-	74 % - Readily - 28 days	-	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
LINALOOL	-	-	Readily
GAMMA-UNDECALACTONE	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
BENZYL ACETATE	1.96	8	Low
3,5,5-trimethylhexyl acetate	-	1622	High
LIMONENE	4.38	-	High
A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol; trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	1.65	-	Low
CITRONELLOL	3.41	-	Low
LINALOOL	2.84	-	Low
PHENETHYL ALCOHOL	1.36	-	Low
CINNAMYL ALCOHOL	1.636	5	Low
COUMARIN	1.39	-	Low
CINNAMAL	1.83	8	Low

12.4 Mobility in soil

Soil/water partition coefficient : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

12.7 Other adverse effects

No known significant effects or critical hazards.

D8409263

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 minimised 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.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

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 Maritime transport in bulk according to IMO instruments : Not available.

D8409263

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 authorisation

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

Product/ingredient name	%	Designation [Usage]
FIL,AWICK,SUNRAY LE EU SOLO_3308361_D8409263 (EU)	≥90	3

Labelling : Not applicable.

Other EU regulations

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EC50 = Half maximal effective concentration
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
LC50 = Median lethal concentration
LD50 = Median lethal dose
LogPow = logarithm of the octanol/water partition coefficient
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number

D8409263

SECTION 16: Other information

SADT = Self-Accelerating Decomposition Temperature
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 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B

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