SAFETY DATA SHEET

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

1.1 Product identifier

Trade name : Air Wick Electrical Plug Diffuser Linen & White Orchid

SDS # : D8407941

Formulation # : 3299814

SKU # : 3308125, 3308127, 3308692, 3306455

Product type : Liquid.

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

Identified uses
Air care, instant action (aerosol sprays) Consumer use

1.3 Details of the supplier of the safety data sheet

The United Kingdom:
RB UK Hygiene Home Commercial Ltd
Wellcroft House, Wellcroft Road, Slough, Berkshire SL1 4AQ
Tel: 0800 376 8181
Email: ConsumerCare_UK@reckitt.com

The Republic Of Ireland:
RB Ireland Hygiene Home Commercial Ltd
7 Riverwalk, Citywest Business Campus, Dublin 24
Ireland
Tel: 01 661 7318
Email: ConsumerHealth_IE@reckitt.com

1.4 Emergency 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.

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

2.2 Label elements

SECTION 2: Hazards identification

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 : LINALOOL
4-TERT-BUTYLCYCLOHEXYL ACETATE
D-LIMONENE
COUMARIN
ETHYL 2,2-DIMETHYLHYDROCINNAMAL
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE
DELTA-DAMASCONE

Supplemental label elements : Contains Geraniol, Hydroxycitronellal, Tetramethyl acetyloctahydronaphthalenes, Linalyl acetate, Heliotropine, 3-(4-isobutyl-2-methylphenyl)propanal, Dimethyl Heptenal, Eucalyptol, Allyl Cyclohexylpropionate, Ethyl Methylphenylglycidate, Nerol, Methylundecanal, Undecylenal, Scentenal, Citrus limon fruit water. 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.

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	≤10	Aquatic Chronic 3, H412	-	[1]
LINALOOL	REACH #: 01-2119474016-42 EC: 201-134-4 CAS: 78-70-6 Index: 603-235-00-2	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
4-TERT-BUTYLCYCLOHEXYL ACETATE	REACH #: 01-2119976286-24 EC: 250-954-9 CAS: 32210-23-4	≤5	Skin Sens. 1B, H317	-	[1]
2,6-DIMETHYL-7-OCTEN-2-OL	REACH #: 01-2119457274-37 EC: 242-362-4 CAS: 18479-58-8	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
D-LIMONENE	REACH #: 01-2119529223-47 EC: 227-813-5 CAS: 5989-27-5 Index: 601-096-00-2	≤3	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]
Methyl ionone (mixture of isomers)	REACH #: 01-2119471851-35 EC: 215-635-0 CAS: 1335-46-2	≤2.9	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	-	[1]
ALLYL HEPTANOATE	REACH #: 01-2119488961-23 EC: 205-527-1 CAS: 142-19-8	≤3	Acute Tox. 3, H301 Acute Tox. 3, H311 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	ATE [Oral] = 100 mg/kg ATE [Dermal] = 810 mg/kg M [Acute] = 1	[1]
p-Methoxybenzaldehyde	REACH #: 01-2119977101-43 EC: 204-602-6 CAS: 123-11-5	≤3	Aquatic Chronic 3, H412	-	[1]
GAMMA-UNDECALACTONE	REACH #: 01-2119959333-34 EC: 203-225-4 CAS: 104-67-6	≤3	Aquatic Chronic 3, H412	-	[1]
3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-indenyl propionate (mixture of isomers)	EC: 272-805-7 CAS: 68912-13-0	≤1.9	Aquatic Chronic 2, H411	-	[1]
ALPHA-ISOMETHYL IONONE	REACH #: 01-2120138569-45 EC: 204-846-3 CAS: 127-51-5	≤1.9	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]

SECTION 3: Composition/information on ingredients

COUMARIN	REACH #: 01-2119943756-26 EC: 202-086-7 CAS: 91-64-5	≤2.3	Acute Tox. 4, H302 Skin Sens. 1B, H317	ATE [Oral] = 500 mg/kg	[1]
PHENYLISOHEXANOL	REACH #: 01-2119969446-23 EC: 259-461-3 CAS: 55066-48-3	≤2.2	Acute Tox. 4, H302	ATE [Oral] = 500 mg/kg	[1]
ETHYL 2,2-DIMETHYLHYDROCINNAMAL	REACH #: 01-2120758796-34 EC: 266-819-2 CAS: 67634-15-5	≤1.3	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1]
VANILLIN	EC: 204-465-2 CAS: 121-33-5	≤3	Eye Irrit. 2, H319	-	[1]
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE	EC: 268-264-1 CAS: 68039-49-6	≤1.2	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
GERANIOL	REACH #: 01-2119552430-49 EC: 203-377-1 CAS: 106-24-1 Index: 603-241-00-5	<1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	-	[1]
HYDROXYCITRONELLAL	REACH #: 01-2119973482-31 EC: 203-518-7 CAS: 107-75-5	<1	Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
Tetramethyl acetyloctahydronaphthalenes	REACH #: 01-2119489989-04 EC: 259-174-3 CAS: 54464-57-2	≤0.68	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
LINALYL ACETATE	REACH #: 01-2119454789-19 EC: 204-116-4 CAS: 115-95-7	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
3-(4-isobutyl-2-methylphenyl)propanal	CAS: 1637294-12-2	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
HELIOTROPINE	REACH #: 01-2119983608-21 EC: 204-409-7 CAS: 120-57-0	<1	Skin Sens. 1B, H317	-	[1]
ALLYL CAPROATE	REACH #: 01-2119983573-26 EC: 204-642-4 CAS: 123-68-2	≤0.88	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	ATE [Oral] = 218 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l M [Acute] = 1	[1]
DELTA-DAMASCONE	EC: 260-709-8	≤0.58	Acute Tox. 4, H302	ATE [Oral] = 500	[1]

SECTION 3: Composition/information on ingredients

	CAS: 57378-68-4		Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	mg/kg M [Acute] = 1 M [Chronic] = 1	
2,6-Dimethyl-5-heptenal	EC: 203-427-2 CAS: 106-72-9	<1	Skin Sens. 1B, H317	-	[1]
ALLYL CYCLOHEXYLPROPIONATE	REACH #: 01-2119976355-27 EC: 220-292-5 CAS: 2705-87-5	<1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE [Oral] = 585 mg/kg ATE [Dermal] = 1100 mg/kg M [Acute] = 1	[1]
OXACYCLOHEXADECENONE	CAS: 34902-57-3	<1	Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1]
Eucalyptol	REACH #: 01-2119967772-24 EC: 207-431-5 CAS: 470-82-6	<1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
CIS-3-HEXENYL SALICYLATE	REACH #: 01-2119987320-37 EC: 265-745-8 CAS: 65405-77-8	<1	Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1]
ETHYL METHYLPHENYLGLYCIDATE	REACH #: 01-2119967770-28 EC: 201-061-8 CAS: 77-83-8	<1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
NEROL	REACH #: 01-2119983244-33 EC: 203-378-7 CAS: 106-25-2	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
2-Methylundecanal	REACH #: 01-2119969443-29 EC: 203-765-0 CAS: 110-41-8	≤0.29	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
SCENTENAL	REACH #: 01-0000017614-70 CAS: 86803-90-9	≤0.3	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
10-Undecenal	EC: 203-973-1 CAS: 112-45-8	≤0.3	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	REACH #: 01-2119976300-42 EC: 240-457-5 CAS: 16409-43-1	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361	-	[1]
Lemon, ext.	EC: 284-515-8 CAS: 84929-31-7	≤0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2,	-	[1]

SECTION 3: Composition/information on ingredients

			H411 **See Section 16 for the full text of the H statements declared above.**		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, 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

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 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

SECTION 4: First aid measures

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 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 specialized 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.

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.

SECTION 6: Accidental release measures

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

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

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

No exposure limit value known.

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

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/m³	General population	Systemic
	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	9 mg/m³	Workers	Systemic
LINALOOL	DNEL	Long term Dermal	15 mg/cm²	Workers	Local
	DNEL	Short term Dermal	15 mg/cm²	Workers	Local
	DNEL	Long term Dermal	15 mg/cm²	General population [Consumers]	Local
	DNEL	Short term Oral	1.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	1.25 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	1.5 mg/cm²	General population	Local
	DNEL	Long term Dermal	1.5 mg/cm²	General population	Local
	DNEL	Long term Oral	2.49 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	3 mg/cm²	Workers	Local
	DNEL	Long term Dermal	3 mg/cm²	Workers	Local
	DNEL	Long term Dermal	3.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.33 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	24.58 mg/m³	Workers	Systemic
2,6-DIMETHYL-7-OCTEN-2-OL	DNEL	Long term Inhalation	73.5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	20.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	21.7 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	12.5 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	4.35 mg/m³	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	24.7 mg/m³	Workers	Systemic
D-LIMONENE	DNEL	Long term Inhalation	66.7 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	9.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	16.6 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	4.8 mg/kg	General	Systemic

SECTION 8: Exposure controls/personal protection

			bw/day	population [Consumers]	
	DNEL	Long term Oral	4.8 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	4.8 mg/kg bw/day	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/m³	General population	Systemic
	DNEL	Long term Inhalation	66.7 mg/m³	Workers	Systemic
Methyl ionone (mixture of isomers)	DNEL	Long term Inhalation	12.24 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	6.94 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.62 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	4.17 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.08 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	3.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	6.4 mg/m³	General population	Systemic
	DNEL	Long term Dermal	7.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	14.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	26.1 mg/m³	Workers	Systemic
ALLYL HEPTANOATE	DNEL	Long term Inhalation	16 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	4.7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.1 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	2.3 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.3 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.42 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.42 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.73 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0.84 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.97 mg/m³	Workers	Systemic
p-Methoxybenzaldehyde	DNEL	Long term Oral	1 mg/kg bw/day	General population	Systemic

SECTION 8: Exposure controls/personal protection

	DNEL	Long term Inhalation	1.74 mg/m³	General population	Systemic
	DNEL	Long term Dermal	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5.88 mg/m³	Workers	Systemic
GAMMA-UNDECALACTONE	DNEL	Long term Inhalation	19 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	5.38 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.68 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.7 mg/kg bw/day	General population [Consumers]	Systemic
	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/m³	General population	Systemic
	DNEL	Long term Dermal	5.38 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	19 mg/m³	Workers	Systemic
ALPHA-ISOMETHYL IONONE	DNEL	Long term Oral	35.5 µg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	44.6 µg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.375 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.45 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	8.22 mg/m³	Workers	Systemic
COUMARIN	DNEL	Long term Oral	0.39 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.39 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.79 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.69 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	6.78 mg/m³	Workers	Systemic
PHENYLISOHEXANOL	DNEL	Long term Inhalation	0.88 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	0.13 mg/cm²	Workers	Local
	DNEL	Long term Inhalation	0.21 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	0.25 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Dermal	0.065 mg/cm²	General population [Consumers]	Local

SECTION 8: Exposure controls/personal protection

	DNEL	Short term Dermal	0.39 mg/cm²	General population [Consumers]	Local
	DNEL	Long term Oral	0.06 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Dermal	0.375 mg/kg bw/day	General population [Consumers]	Local
	DNEL	Long term Oral	0.06 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.065 mg/cm²	General population	Local
	DNEL	Long term Dermal	0.13 mg/cm²	Workers	Local
	DNEL	Long term Inhalation	0.21 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.375 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.39 mg/cm²	General population	Local
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.88 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	1.3 mg/m³	General population	Systemic
	DNEL	Short term Dermal	1.5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	5.3 mg/m³	Workers	Systemic
GERANIOL	DNEL	Long term Dermal	7.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	11.8 mg/cm²	General population	Local
	DNEL	Long term Dermal	11.8 mg/cm²	Workers	Local
	DNEL	Long term Dermal	12.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	13.75 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	47.8 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	161.6 mg/m³	Workers	Systemic
HYDROXYCITRONELLAL	DNEL	Short term Dermal	0.5 mg/cm²	General population	Local
	DNEL	Short term Dermal	0.5 mg/cm²	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/m³	General population	Systemic
	DNEL	Long term Inhalation	18 mg/m³	Workers	Systemic
LINALYL ACETATE	DNEL	Long term Oral	0.2 mg/kg	General	Systemic

SECTION 8: Exposure controls/personal protection

			bw/day	population	
	DNEL	Short term Dermal	0.2362 mg/cm²	General population	Local
	DNEL	Long term Dermal	0.2362 mg/cm²	General population	Local
	DNEL	Short term Dermal	0.2362 mg/cm²	Workers	Local
	DNEL	Long term Dermal	0.2362 mg/cm²	Workers	Local
	DNEL	Long term Inhalation	0.68 mg/m³	General population	Systemic
	DNEL	Long term Dermal	1.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.75 mg/m³	Workers	Systemic
HELIOTROPINE	DNEL	Long term Oral	1.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.3 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	17.6 mg/m³	Workers	Systemic
ALLYL CAPROATE	DNEL	Long term Inhalation	15 mg/m³	Workers	Systemic
	DNEL	Long term Oral	4.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.7 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.1 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.1 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3.7 mg/m³	General population	Systemic
	DNEL	Long term Dermal	4.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	15 mg/m³	Workers	Systemic
2,6-Dimethyl-5-heptenal	DNEL	Long term Oral	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.74 mg/m³	General population	Systemic
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.35 mg/m³	General population	Local
	DNEL	Short term Inhalation	5.22 mg/m³	General population	Systemic
	DNEL	Long term	7.05 mg/m³	Workers	Systemic

SECTION 8: Exposure controls/personal protection

		Inhalation			
	DNEL	Short term Inhalation	13.04 mg/m³	General population	Local
	DNEL	Long term Inhalation	17.63 mg/m³	Workers	Local
	DNEL	Short term Inhalation	21.16 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	52.89 mg/m³	Workers	Local
	DNEL	Long term Dermal	70.83 mg/cm²	General population	Local
	DNEL	Short term Oral	85 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	85 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	141.67 mg/cm²	Workers	Local
	DNEL	Short term Dermal	170 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	212.5 mg/cm²	General population	Local
	DNEL	Short term Dermal	425 mg/cm²	Workers	Local
ALLYL CYCLOHEXYLPROPIONATE	DNEL	Long term Oral	2.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3.7 mg/m³	General population	Systemic
	DNEL	Long term Dermal	4.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	15 mg/m³	Workers	Systemic
Eucalyptol	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.74 mg/m³	General population	Systemic
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	7.05 mg/m³	Workers	Systemic
	DNEL	Long term Oral	600 mg/kg bw/day	General population	Systemic
CIS-3-HEXENYL SALICYLATE	DNEL	Long term Inhalation	1.59 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	0.9 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.39 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	0.45 ng/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.23 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.23 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.39 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0.45 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.9 mg/kg	Workers	Systemic

SECTION 8: Exposure controls/personal protection

			bw/day		
	DNEL	Long term Inhalation	1.59 mg/m³	Workers	Systemic
ETHYL METHYLPHENYLGLYCIDATE	DNEL	Long term Oral	1.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.17 mg/m³	General population	Systemic
	DNEL	Long term Dermal	3.13 mg/cm²	General population	Local
	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	Long term Dermal	5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5.43 mg/m³	General population	Local
	DNEL	Short term Inhalation	8.7 mg/m³	General population	Systemic
	DNEL	Short term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	12.5 mg/cm²	General population	Local
	DNEL	Long term Dermal	12.5 mg/cm²	Workers	Local
	DNEL	Long term Inhalation	17.63 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	21.74 mg/m³	General population	Local
	DNEL	Short term Dermal	25 mg/cm²	Workers	Local
	DNEL	Short term Inhalation	35.26 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	44.08 mg/m³	Workers	Local
	DNEL	Short term Inhalation	88.16 mg/m³	Workers	Local
NEROL	DNEL	Long term Oral	0.62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.09 mg/m³	General population	Systemic
	DNEL	Long term Dermal	1.25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.4 mg/m³	Workers	Systemic
2-Methylundecanal	DNEL	Long term Oral	5.23 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	5.23 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	9.1 mg/m³	General population	Systemic
	DNEL	Long term Dermal	10.46 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	17.86 mg/cm²	General population	Local
	DNEL	Long term Inhalation	22.74 mg/m³	General population	Local
	DNEL	Short term Oral	25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	35.7 mg/	Workers	Local

SECTION 8: Exposure controls/personal protection

			cm^2		
	DNEL	Short term Dermal	35.71 mg/ cm^2	General population	Local
	DNEL	Long term Inhalation	36.89 mg/ m^3	Workers	Systemic
	DNEL	Short term Dermal	50 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	71.43 mg/ cm^2	Workers	Local
	DNEL	Short term Inhalation	86.96 mg/ m^3	General population	Systemic
	DNEL	Long term Inhalation	92.21 mg/ m^3	Workers	Local
	DNEL	Short term Dermal	100 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	217.39 mg/ m^3	General population	Local
	DNEL	Short term Inhalation	352.63 mg/ m^3	Workers	Systemic
	DNEL	Short term Inhalation	881.58 mg/ m^3	Workers	Local
10-Undecenal	DNEL	Long term Oral	1.67 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.67 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.47 mg/m^3	General population	Systemic
	DNEL	Long term Dermal	4.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	16.4 mg/m^3	Workers	Systemic
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	DNEL	Long term Oral	0.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.3 mg/m^3	General population	Systemic
	DNEL	Long term Dermal	0.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m^3	Workers	Systemic
Lemon, ext.	DNEL	Long term Oral	3.33 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.33 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.8 mg/m^3	General population	Systemic
	DNEL	Long term Dermal	6.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	23.3 mg/m^3	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
LINALOOL	Fresh water	0.2 mg/l	Assessment Factors
	Marine water	0.02 mg/l	Assessment Factors
	Sewage Treatment Plant	10 mg/l	Assessment Factors
2,6-DIMETHYL-7-OCTEN-2-OL	Fresh water	27.8 µg/l	Assessment Factors
	Marine water	2.78 µg/l	Assessment Factors
	Fresh water sediment	0.594 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.059 mg/kg dwt	Equilibrium Partitioning
	Soil	0.103 mg/kg dwt	Equilibrium Partitioning

SECTION 8: Exposure controls/personal protection

	Secondary Poisoning	111 mg/kg	Assessment Factors
D-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
	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
ALLYL HEPTANOATE	Fresh water	0.12 µg/l	Assessment Factors
	Marine water	0.012 µg/l	Assessment Factors
	Fresh water sediment	0.012 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.001 mg/kg dwt	Equilibrium Partitioning
	Soil	0.002 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	51.78 mg/kg	Assessment Factors
VANILLIN	Fresh water	0.118 mg/l	Assessment Factors
	Sediment	58.22 mg/kg dwt	Equilibrium Partitioning
ALLYL CAPROATE	Fresh water	0.117 µg/l	Assessment Factors
	Marine water	0.012 µg/l	Assessment Factors
	Soil	0.000825 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	47.56 mg/kg dwt	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

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

SECTION 8: Exposure controls/personal protection

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.

Color : Colorless to light yellow.

Odor : Fragrant.

Melting point/freezing point : Not relevant/applicable due to nature of the product.

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: 72°C (161.6°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 available. Not available.

Viscosity : Not relevant/applicable due to nature of the product.

Solubility(ies) :

Media	Result
cold water	Not soluble
hot water	Not soluble

Partition coefficient: n-octanol/water : Not relevant/applicable due to nature of the product.

Vapor pressure : 0.04 kPa (0.3 mm Hg)

Relative density : 0.9783 to 0.9883

Density : 0.9783 to 0.9883 g/cm³ [25°C (77°F)]

Vapor density : Not relevant/applicable due to nature of the product.

Particle characteristics

Median particle size : Not relevant/applicable due to nature of the product.

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

Product/ingredient name	Result	Species	Dose	Exposure
BENZYL ACETATE	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	2490 mg/kg	-
LINALOOL	LD50 Dermal	Rabbit	5610 mg/kg	-
	LD50 Dermal	Rat	5610 mg/kg	-
	LD50 Oral	Rat	2790 mg/kg	-
4-TERT-BUTYLCYCLOHEXYL ACETATE	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3550 mg/kg	-
2,6-DIMETHYL-7-OCTEN-2-OL	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3600 mg/kg	-
D-LIMONENE	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4400 mg/kg	-
Methyl ionone (mixture of isomers)	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ALLYL HEPTANOATE	LD50 Dermal	Rabbit	810 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
p-Methoxybenzaldehyde	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	1510 mg/kg	-
GAMMA-UNDECALACTONE	LD50 Oral	Rat	18500 mg/kg	-
ALPHA-ISOMETHYL IONONE	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ETHYL 2,2-DIMETHYLHYDROCINNAMAL	LD50 Dermal	Rabbit	>5 g/kg	-
VANILLIN	LD50 Dermal	Rabbit	>5010 mg/kg	-
	LD50 Oral	Rat	1580 mg/kg	-
GERANIOL	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.1 g/kg	-
HYDROXYCITRONELLAL	LD50 Oral	Rat	>5000 mg/kg	-
LINALYL ACETATE	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	13934 mg/kg	-
HELIOTROPINE	LD50 Dermal	Rat	>5 g/kg	-
	LD50 Oral	Rat	2700 mg/kg	-
ALLYL CAPROATE	LD50 Dermal	Rabbit	300 mg/kg	-
	LD50 Oral	Rat	218 mg/kg	-

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2,6-Dimethyl-5-heptenal	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
ALLYL CYCLOHEXYLPROPIONATE	LD50 Oral	Rat	585 mg/kg	-
Eucalyptol	LD50 Oral	Rat	2480 mg/kg	-
CIS-3-HEXENYL SALICYLATE	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5 g/kg	-
ETHYL METHYLPHENYLGLYCIDATE	LD50 Oral	Rat	5470 mg/kg	-
NEROL	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
2-Methylundecanal	LD50 Dermal	Rabbit	>10 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
SCENTENAL	LD50 Oral	Rat	2800 mg/kg	-
10-Undecenal	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	LD50 Oral	Rat	4300 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 (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
FIL,AWICK,GOSSYP LE EU JUDE_FF3299814 (D8407941)_EU	3835.8	25616.7	N/A	529.9	N/A
BENZYL ACETATE	2490	N/A	N/A	N/A	N/A
LINALOOL	2790	5610	N/A	N/A	N/A
4-TERT-BUTYLCYCLOHEXYL ACETATE	3550	N/A	N/A	N/A	N/A
2,6-DIMETHYL-7-OCTEN-2-OL	3600	N/A	N/A	N/A	N/A
D-LIMONENE	4400	N/A	N/A	N/A	N/A
ALLYL HEPTANOATE	100	810	N/A	N/A	N/A
p-Methoxybenzaldehyde	2500	N/A	N/A	N/A	N/A
GAMMA-UNDECALACTONE	18500	N/A	N/A	N/A	N/A
COUMARIN	500	N/A	N/A	N/A	N/A
PHENYLISOHEXANOL	500	2500	N/A	N/A	N/A
VANILLIN	2500	N/A	N/A	N/A	N/A
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE	2500	N/A	N/A	N/A	N/A
GERANIOL	2100	N/A	N/A	N/A	N/A
LINALYL ACETATE	13934	N/A	N/A	N/A	N/A
HELIOTROPINE	2700	N/A	N/A	N/A	N/A
ALLYL CAPROATE	218	300	N/A	3	N/A
DELTA-DAMASCONE	500	N/A	N/A	N/A	N/A
ALLYL CYCLOHEXYLPROPIONATE	585	1100	N/A	N/A	N/A
Eucalyptol	2480	N/A	N/A	N/A	N/A
CIS-3-HEXENYL SALICYLATE	5000	N/A	N/A	N/A	N/A
ETHYL METHYLPHENYLGLYCIDATE	5470	N/A	N/A	N/A	N/A
NEROL	4500	N/A	N/A	N/A	N/A
SCENTENAL	2800	N/A	N/A	N/A	N/A
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	4300	N/A	N/A	N/A	N/A

Irritation/Corrosion

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Product/ingredient name	Result	Species	Score	Exposure	Observation
LINALOOL	Eyes - Moderate irritant	Rabbit	-	1 hours 0.1 Ml	-
	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	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 mg	-
4-TERT-BUTYLCYCLOHEXYL ACETATE	Skin - Mild irritant	Guinea pig	-	4 hours 3 %	-
	Skin - Moderate irritant	Rabbit	-	4 hours 100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
2,6-DIMETHYL-7-OCTEN-2-OL	Eyes - Mild irritant	Rabbit	-	7.5 %	-
	Skin - Mild irritant	Rabbit	-	4 hours 0.5 Ml	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
D-LIMONENE	Skin - Mild irritant	Rabbit	-	24 hours 10 %	-
GERANIOL	Skin - Mild irritant	Guinea pig	-	30 %	-
	Skin - Moderate irritant	Rabbit	-	4 hours 0.5 Ml	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 mg	-
	Skin - Severe irritant	Human	-	48 hours 32 %	-
	Skin - Severe irritant	Man	-	24 hours 16 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 mg	-
HYDROXYCITRONELLAL	Eyes - Severe irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
LINALYL ACETATE	Skin - Moderate irritant	Guinea pig	-	24 hours 100 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 mg	-
ALLYL CAPROATE	Skin - Mild irritant	Human	-	48 hours 20 mg	-
CIS-3-HEXENYL SALICYLATE	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
NEROL	Eyes - Moderate irritant	Rabbit	-	0.1 Ml	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
10-Undecenal	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

Skin : Causes skin irritation. Calculation method

SECTION 11: Toxicological information

Eyes : Causes serious eye irritation. Calculation method

Respiratory : Based on available data, the classification criteria are not met.

Sensitization

Conclusion/Summary

Skin : May cause an allergic skin reaction. Calculation method

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)

Product/ingredient name	Category	Route of exposure	Target organs
2,6-DIMETHYL-7-OCTEN-2-OL	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
D-LIMONENE Lemon, ext.	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the 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.

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 and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

SECTION 11: Toxicological information

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
LINALOOL	Acute EC50 36.7 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 28.8 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
D-LIMONENE	Acute EC50 421 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 688 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
COUMARIN	Acute LC50 13500 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 56000 µg/l Fresh water	Fish - Poecilia reticulata	96 hours
VANILLIN	Acute LC50 112000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Eucalyptol	Acute LC50 102000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Conclusion/Summary : Harmful to aquatic life with long lasting effects. Calculation method

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 : Not available.

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

12.3 Bioaccumulative potential

SECTION 12: Ecological information

Product/ingredient name	$LogP_{ow}$	BCF	Potential
BENZYL ACETATE	1.96	8	low
LINALOOL	2.84	-	low
4-TERT-BUTYLCYCLOHEXYL ACETATE	4.8	-	high
2,6-DIMETHYL-7-OCTEN-2-OL	3.25	-	low
D-LIMONENE	4.38	-	high
Methyl ionone (mixture of isomers)	4.5 to 5	-	high
ALLYL HEPTANOATE	3.97	123.4	low
p-Methoxybenzaldehyde	1.76	-	low
COUMARIN	1.39	-	low
VANILLIN	1.21	-	low
GERANIOL	2.6	-	low
LINALYL ACETATE	3.9	173.9	low
HELIOTROPINE	1.05	-	low
ALLYL CAPROATE	-	102.3	low
ALLYL CYCLOHEXYLPROPIONATE	-	861	high
Eucalyptol	2.74	-	low
NEROL	3.47	-	low
Lemon, ext.	3.33 to 6.3	1.818 to 3.825	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : 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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7 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.

SECTION 13: Disposal considerations

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

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.	9003	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C (LINALOOL, 2,6-DIMETHYL-7-OCTEN-2-OL)	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

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.

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.

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : None.

Other EU regulations

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
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 3, H412	Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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.

SECTION 16: Other information

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - 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. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

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