SAFETY DATA SHEET



Fragrance 49437458

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

1.1 Product identifier

Product code : Fragrance 49437458
Product name : SENSUAL SPICY RD

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

Fragrance. Restricted to professional users. Industrial use only.

1.3 Details of the supplier of the safety data sheet

Supplier's details : drom fragrances GmbH & Co. KG

Oberdiller Straße 18 tel. +49 89 74425-0 fax. +49 89 7934966 D-82065 Baierbrunn

e-mail address of person responsible for this SDS

: safety@drom.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : www.rshm.gov.tr

Supplier

Emergency telephone number (with hours of

operation)

: +49 89 74425 288 9h - 17h (Mo - Fr)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317 Aquatic Chronic 3, H412

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R43

R52/53

Human health hazards: May cause sensitization by skin contact.

Environmental hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word : Warning



SECTION 2: Hazards identification

Hazard statements: H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

Response : P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients : (ℤ)-3,4,5,6,6-pentamethylhept-3-en-2-one

α-methylcinnamaldehyde

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

pin-2(3)-ene cinnamonitrile

2-methoxy-4-propylphenol

(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one

Supplemental label

elements

: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.1 Substances : Not applicable.

3.2 Mixtures : Mixture

			<u>Cla</u>	<u>ssification</u>	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	78.75	Not classified.	Not classified.	[2]
(Z)-3,4,5,6, 6-pentamethylhept- 3-en-2-one	EC: 279-822-9 EC: 279-825-5 EC: 279-823-4 EC: 289-194-8 CAS: 81786-73-4 CAS: 81786-75-6 CAS: 81786-74-5 CAS: 86115-11-9	3.00	R43 N; R51/53	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
vanillin	REACH #: 01-2119516040-60 EC: 204-465-2 CAS: 121-33-5	2.40	Xi; R36	Eye Irrit. 2, H319	[1]
linalool	REACH #: 01-2119474016-42 EC: 201-134-4 CAS: 78-70-6	1.78	Xi; R38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
1-[(2-tert-butyl) cyclohexyloxy] -2-butanol	EC: 412-300-2 CAS: 139504-68-0 Index: 603-154-00-2	1.60	N; R51/53	Aquatic Chronic 2, H411	[1]



			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	
[3R-(3α,3aβ,7β,8aα)]-2 ,3,4,7,8,8a-hexahydro- 3,6,8,8-tetramethyl-1H- 3a,7-methanoazulene	EC: 207-418-4 CAS: 469-61-4	0.02	Xn; R65 N; R50/53	Asp. Tox. 1, H304 Aquatic Chronic 1, H410	[1]
2-ethyl-4-(2,2, 3-trimethyl- 3-cyclopenten-1-yl) -2-buten-1-ol	REACH #: 01-2119529224-45 EC: 248-908-8 CAS: 28219-61-6	0.80	Xi; R36 N; R50/53	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
1-(1,2,3,4,5,6,7, 8-octahydro-2,3,8, 8-tetramethyl- 2-naphthyl)ethan-1-one	REACH #: 01-2119489989-04 EC: 915-730-3 CAS: 54464-57-2 CAS: 68155-66-8 CAS: 68155-67-9	0.80	Xi; R38 R43 N; R51/53	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 1, H410	[1]
[3R-(3α,3aβ,6α,7β,8aα)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate	EC: 201-036-1 CAS: 77-54-3	1.00	N; R51/53	Aquatic Chronic 2, H411	[1]
(E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl) -3-buten-2-one	REACH #: 01-2119449921-34 EC: 201-224-3 CAS: 79-77-6	1.00	N; R51/53	Aquatic Chronic 2, H411	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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

Hydrocarbon. (Content) : 1.72%

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 if irritation occurs.

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.





SECTION 4: First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

: No known significant effects or critical hazards. Eye contact Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/

symptoms

: Not available.

4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

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.

carbon monoxide

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is 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 thermal decomposition products : Decomposition products may include the following materials: carbon dioxide

5.3 Advice for firefighters Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

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

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

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

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)



SECTION 7: Handling and storage

Recommendations: Industrial use only.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
√2-methoxymethylethoxy)propanol	TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin. TWA: 308 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
vanillin	DNEL	Short term Oral	10 mg/kg bw/day	Consumers	Systemic
linalool	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.8 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	15 mg/cm ²	Workers	Local
	DNEL	Short term Dermal	15 mg/cm²	Workers	Local
	DNEL	Long term Dermal	1.25 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	0.7 mg/m³	Consumers	Systemic
	DNEL	Long term Oral	0.2 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Dermal	15 mg/cm²	Consumers	Local
	DNEL	Short term Dermal	2.5 mg/cm ²	Consumers	Systemic
	DNEL	Short term Inhalation	4.1 mg/m³	Consumers	Systemic
	DNEL	Short term Oral	1.2 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Dermal	15 mg/cm ²	Consumers	Local
	DNEL	Short term Dermal	5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	16.5 mg/m³	Workers	Systemic
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	DNEL	Long term Inhalation	3.1 mg/m³	Consumers	Systemic
	DNEL	Long term Inhalation	12.7 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	3.6 mg/kg	Consumers	Systemic

CIONFRAGRANCES

Fragrance 49437458

SECTION 8: Exposure controls/personal protection

	DNEL	Long term Dermal	6 mg/kg	Workers	Systemic
	DNEL	Long term Oral	1.8 mg/kg	Consumers	Systemic
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	DNEL	Long term Dermal	0.1011 mg/ cm ²	Workers	Local
	DNEL	Long term Inhalation	1.76 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.73 mg/ kg bw/day	Workers	Systemic
2-ethyl-4-(2,2,3-trimethyl- 3-cyclopenten-1-yl)-2-buten-1-ol	DNEL	Short term Oral	3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	6 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	1.4 mg/kg bw/day	Workers	-
	DNEL	Short term Inhalation	7 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	7 mg/m³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
vanillin	Fresh water	0.118 mg/l	-
	Marine water	0.0118 mg/l	-
	Fresh water sediment	58.22 mg/kg	-
	Marine water sediment	5.82 mg/kg	-
	Soil	11.54 mg/kg	-
	Sewage Treatment Plant	10 mg/l	-
inalool	Fresh water	0.2 mg/l	-
	Marine water	0.02 mg/l	-
	Intermittent release	2 mg/l	-
	Fresh water sediment	2.22 mg/kg dwt	-
	Marine water sediment	0.222 mg/kg dwt	-
	Soil	0.327 mg/kg dwt	-
	Sewage Treatment Plant	>10 mg/l	-
E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl) 3-buten-2-one	Fresh water	0.00403 mg/l	-
	Marine water	0.0004 mg/l	-



SECTION 8: Exposure controls/personal protection

DEG HOM OF Exposure controlors	р. с. с с		
	Intermittent release	0.0403 mg/l	-
	Sewage Treatment Plant	1 mg/l	-
	Fresh water sediment	0.151 mg/kg	-
	Marine water sediment	0.0151 mg/kg	-
	Soil	0.0508 mg/kg	-
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8, 8-tetramethyl-2-naphthyl)ethan-1-one	Fresh water	0.0028 mg/l	-
	Marine water	0.00028 mg/l	-
	Fresh water sediment	3.73 mg/kg	-
	Marine water sediment	0.75 mg/kg	-
	Soil	0.705 mg/kg	-
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl) -2-buten-1-ol	Fresh water	0.63 µg/l	-
	Marine water	0.063 μg/l	-
	Fresh water sediment	0.04379 mg/kg dwt	-
	Marine water sediment	0.004379 mg/kg wwt	-
	Soil	0.00839 mg/kg	-

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: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 8: Exposure controls/personal protection

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Color Characteristic. Odor Characteristic. Not available. **Odor threshold** Not available. pН Not available. Melting point/freezing point Initial boiling point and Not available.

boiling range

: Closed cup: 75°C Flash point **Evaporation rate** : Not available. Upper/lower flammability or Not available.

explosive limits

Vapor pressure : 0.72 hPa Vapor density Not available.

0.953 to 0.963 g/cm3 [20°C] **Density** Solubility in water : Non water-soluble liquid

Partition coefficient: n-octanol/: Not available.

water

Auto-ignition temperature Not available. **Decomposition temperature** Not available.

Viscosity Kinematic (40°C): <0.07 cm²/s (Estimated.)

Explosive properties Not available. Not available. Oxidizing properties

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.



SECTION 10: Stability and reactivity

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
(2-methoxymethylethoxy) propanol	LC50 Inhalation Vapor	Rat	55 to 60 mg/l	4 hours
	LD50 Dermal	Rabbit	13000 to 14000 mg/kg	-
	LD50 Dermal	Rat	9500 mg/kg	-
	LD50 Oral	Rat	5135 mg/kg	-
(Z)-3,4,5,6, 6-pentamethylhept-3-en- 2-one	LD50 Oral	Rat	6100 mg/kg	-
vanillin	LD50 Dermal	Rabbit	>5010 mg/kg	-
	LD50 Oral	Rat - Male, Female	3978 mg/kg	-
linalool	LD50 Dermal	Rabbit	5610 mg/kg	-
	LD50 Dermal	Rat	5610 mg/kg	-
	LD50 Oral	Rat	2790 mg/kg	-
1-[(2-tert-butyl) cyclohexyloxy]-2-butanol	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
(E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl)-3-buten- 2-one	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>4000 mg/kg	-
[3R-(3α,3aβ,6α,7β,8aα)]- octahydro-3,6,8,8- tetramethyl-1H-3a,7- methanoazulen-5-yl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	44750 mg/kg	-
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-ethyl-4-(2,2,3-trimethyl- 3-cyclopenten-1-yl)-2-buten- 1-ol	LD50 Dermal	Rabbit	4600 mg/kg	-



SECTION 11: Toxicological information

LD50 Oral Rat 5000 mg/kg -

Acute toxicity estimates

Route	ATE value
Oral	55000 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
(2-methoxymethylethoxy) propanol	Eyes - Mild irritant	Human	-	8 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
linalool	Eyes - Moderate irritant	Rabbit	-	1 hours 0.1 Mililiters	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Skin - Moderate irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Human	-	72 hours 32 Percent	-
	Skin - Mild irritant	Man	-	48 hours 16 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	Skin - Irritant	Human	-	-	-
[3R-(3α,3aβ,7β,8aα)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
(E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl)-3-buten- 2-one	skin	Human	Not sensitizing
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	skin	Mouse	Sensitizing

Mutagenicity



SECTION 11: Toxicological information

Product/ingredient name	Test	Experiment	Result
(E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl)-3-buten- 2-one	-	Experiment: In vitro Subject: Bacteria	Negative
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	-	Experiment: In vitro Subject: Mammalian-Human	Negative
	-	Experiment: In vivo Subject: Mammalian-Animal	Negative

Aspiration hazard

Product/ingredient name	Result
[3R-(3 α ,3a β ,7 β ,8a α)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	ASPIRATION HAZARD - Category 1

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: 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 : No specific data.

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

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

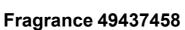
Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Interactive effects : Not available.

Toxicokinetics

Absorption: Not available.Distribution: Not available.Metabolism: Not available.Elimination: Not available.





SECTION 11: Toxicological information

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
√2-methoxymethylethoxy) propanol	Acute EC50 969 mg/l	Algae - Selenastrum capricornutum	96 hours
	Acute LC50 1919 mg/l	Daphnia	48 hours
	Acute LC50 >10000 mg/l	Fish - Pimephales promelas	96 hours
vanillin	Acute EC50 36.8 mg/l	Daphnia	48 hours
	Acute LC50 57000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 47 mg/l	Aquatic plants	72 hours
	Acute NOEC 5.9 mg/l	Daphnia	21 hours
linalool	Acute EC50 141.4 mg/l	Aquatic plants	96 hours
	Acute EC50 59 mg/l	Daphnia	48 hours
	Acute EC50 >100 mg/l	Micro-organism	3 hours
	Acute LC50 27.8 mg/l	Fish	96 hours
1-[(2-tert-butyl) cyclohexyloxy]-2-butanol	Acute LC50 4.1 mg/l	Fish	96 hours
(E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl)-3-buten- 2-one	Acute EC50 4.03 mg/l	Daphnia	48 hours
	Acute LC50 21.2 mg/l	Algae	72 hours
	Acute LC50 5090 μg/l Fresh water	Fish - Pimephales promelas	96 hours
[3R-(3α,3aβ,6α,7β,8aα)]- octahydro-3,6,8,8- tetramethyl-1H-3a,7- methanoazulen-5-yl acetate	Acute EC50 6.8 mg/l	Daphnia	48 hours
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	Acute EC50 2.6 mg/l	Algae	72 hours
	Acute EC50 1.38 mg/l	Daphnia	48 hours
	Acute LC50 1.3 mg/l	Fish	96 hours
	Chronic NOEC 0.028 mg/l	Daphnia	21 days
	Chronic NOEC 0.16 mg/l	Fish	30 days
2-ethyl-4-(2,2,3-trimethyl- 3-cyclopenten-1-yl)-2-buten- 1-ol	Acute EC50 0.6 mg/l	Algae	96 hours
	Acute EC50 0.79 mg/l	Daphnia	48 hours
	Acute LC50 0.78 mg/l	Fish	96 hours
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SECTION 12: Ecological information

$[3R-(3\alpha,3a\beta,7\beta,8a\alpha)]-2,3,4,7$	Acute EC50 44 µg/l Fresh water	Daphnia - Daphnia pulex -	48 hours
,8,8a-hexahydro-3,6,8,8-		Neonate	
tetramethyl-1H-3a,7-			
methanoazulene			

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
(2-methoxymethylethoxy) propanol	OECD 301E Ready Biodegradability - Modified OECD Screening Test	>70 % - Readily - 28 days	-	-
vanillin	OECD 301F Ready Biodegradability - Manometric Respirometry Test	>60 % - Readily - 28 days	-	-
linalool	OECD 301C Ready Biodegradability - Modified MITI Test (I)	64.2 % - Readily - 28 days	-	-
(E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl)-3-buten- 2-one	OECD 301F Ready Biodegradability - Manometric Respirometry Test	80 % - Readily - 28 days	-	-
[3R-(3α,3aβ,6α,7β,8aα)]- octahydro-3,6,8,8- tetramethyl-1H-3a,7- methanoazulen-5-yl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	63 % - Readily - 28 days	-	-
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	OECD 301C Ready Biodegradability - Modified MITI Test (I)	11 % - Not readily - 28 days	-	-
2-ethyl-4-(2,2,3-trimethyl- 3-cyclopenten-1-yl)-2-buten- 1-ol	OECD 301D Ready Biodegradability - Closed Bottle Test	5 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
(2-methoxymethylethoxy) propanol	-	-	Readily
vanillin	-	-	Readily
linalool	-	-	Readily
(E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl)-3-buten- 2-one	-	-	Readily



SECTION 12: Ecological information

[3R-(3α,3aβ,6α,7β,8aα)]- octahydro-3,6,8,8- tetramethyl-1H-3a,7- methanoazulen-5-yl acetate	-	-	Readily
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	-	-	Not readily
2-ethyl-4-(2,2,3-trimethyl- 3-cyclopenten-1-yl)-2-buten- 1-ol	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
(2-methoxymethylethoxy) propanol	-0.35	-	low
vanillin	1.21	-	low
linalool	2.84	-	low
1-[(2-tert-butyl) cyclohexyloxy]-2-butanol	-	173	low
(E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl)-3-buten- 2-one	4.1	202.4	low
1-(1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetramethyl- 2-naphthyl)ethan-1-one	5.65	-	high
2-ethyl-4-(2,2,3-trimethyl- 3-cyclopenten-1-yl)-2-buten- 1-ol	4.3	667	high
[3R-(3α,3aβ,7β,8aα)]-2,3,4,7 ,8,8a-hexahydro-3,6,8,8- tetramethyl-1H-3a,7- methanoazulene	5.74	-	high

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

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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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

Waste code	Waste designation
16 03 05*	organic wastes containing dangerous substances

Packaging

Methods of disposal

- : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions
- : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	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.
Additional information	-	-	-

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.



SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions

: Not applicable.

on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles

Registration status

All components are listed : China inventory (IECSC)

United States inventory (TSCA 8b)

Europe inventory (EINECS/ELINCS/

NLP)

Canada inventory (DSL/NDSL)

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

listed in NDSL.

15.2 Chemical Safety **Assessment**

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

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 Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

: H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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Fragrance 49437458

SECTION 16: Other information

Full text of classifications [CLP/GHS]

: Aquatic Acute 1, H400 AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1, H410 AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2, H411 AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
Skin Sens. 1B, H317 SKIN SENSITIZATION - Category 1B

Full text of abbreviated R phrases

R65- Harmful: may cause lung damage if swallowed.

R36- Irritating to eyes. R38- Irritating to skin.

R43- May cause sensitization by skin contact.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Full text of classifications

[DSD/DPD]

: Xn - Harmful Xi - Irritant

N - Dangerous for the environment

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Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot quarantee that these are the only hazards that exist.