

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

The Ritual of Karma Fragrance Sticks

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: The Ritual of Karma Fragrance Sticks

Other means of identification:

UFI: 14GV-K644-F302-JT03

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

Relevant uses (Consumer use): Air freshener for Indoor rooms (continuous action)

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Rituals Cosmetics Herengracht 541

1017 BW Amsterdam - The Netherlands

1.4 Emergency telephone number: +31 (0)20 333 91 00

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319

Flam. Liq. 2: Flammable liquids, Category 2, H225

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger





Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Precautionary statements:

P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplementary information:

EUH208: Contains d-limonene, Piperonal, Linalyl acetate, Linalool, cis-4-tert-butylcyclohexyl acetate, Citronellol, 3-p-cumenyl-2-methylpropionaldehyde, Coumarin, Isoeugenol. May produce an allergic reaction.

UFI: 14GV-K644-F302-JT03

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not relevant

3.2 Mixture:

Chemical description: Perfume/s

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification		Concentration
64-17-5 200-578-6 603-002-00-5 01-2119457610-43- XXXX	ethanol(1) Self-class Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger	ssified (1)	30 - <75 %
5989-27-5 227-813-5 601-096-00-2 01-2119529223-47- XXXX	Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	ssified \$\displayset	<1 %
120-57-0 204-409-7 Not relevant 01-2119983608-21- XXXX	Piperonal(1) Self-cla Regulation 1272/2008 Skin Sens. 1B: H317 - Warning	ssified	<1 %
115-95-7 204-116-4 Not relevant 01-2119454789-19- XXXX	Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	ssified	<1 %
78-70-6 201-134-4 603-235-00-2 01-2119474016-42- XXXX	Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	ssified	<1 %
10411-92-4 233-881-7 Not relevant 01-2119976287-22- XXXX	Cis-4-tert-butylcyclohexyl acetate ⁽¹⁾ Regulation 1272/2008 Acute Tox. 4: H302; Skin Sens. 1B: H317 - Warning	ssified	<1 %
106-22-9 203-375-0 Not relevant 01-2119453995-23- XXXX	Citronellol(1) Self-cla Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	ssified	<1 %
103-95-7 203-161-7 Not relevant 01-2119970582-32- XXXX	3-p-cumenyl-2-methylpropionaldehyde(1) Self-cla Regulation 1272/2008 Aquatic Chronic 3: H412; Skin Init. 2: H315; Skin Sens. 1B: H317 - Warning	ssified	<1 %
91-64-5 202-086-7 Not relevant 01-2119949300-45- XXXX	Coumarin(1) Self-cla Regulation 1272/2008 Acute Tox. 4: H302; Skin Sens. 1B: H317 - Warning	ssified	<1 %
97-54-1 202-590-7 604-094-00-X Not relevant	Isoeugenol ⁽¹⁾ Self-cla Regulation 1272/2008 Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317; STOT SE 3: H335 - Warning	ssified	<1 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	Specific concentration limit
ethanol CAS: 64-17-5 EC: 200-578-6	% (w/w) >=50: Eye Irrit. 2 - H319
Isoeugenol CAS: 97-S4-1 EC: 202-590-7	% (w/w) >=0,01: Skin Sens. 1A - H317

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute	Acute toxicity	
ethanol	LD50 oral	Not relevant	
CAS: 64-17-5 EC: 200-578-6	LD50 dermal	Not relevant	
	LC50 inhalation vapour	124,7 mg/L	Rat
cis-4-tert-butylcyclohexyl acetate	LD50 oral	500 mg/kg	Rat
CAS: 10411-92-4	LD50 dermal	Not relevant	
EC: 233-881-7	LCSO inhalation vapour	Not relevant	

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Acute toxic	ity	Genus
Isoeugenol	LD50 oral	1500 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
EC: 202-590-7	LC50 inhalation vapour	11 mg/L	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

It is recommended to avoid environmental spillage of both the product and its container.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: $5 \, ^{\circ}\text{C}$ Maximum Temp.: $40 \, ^{\circ}\text{C}$

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

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SECTION 7: HANDLING AND STORAGE (continued)

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

		Short	exposure	sure Long exposure	
Identification		Systemic	Local	Systemic	Local
ethanol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-17-5	Dermal	Not relevant	Not relevant	343 mg/kg	Not relevant
EC: 200-578-6	Inhalation	Not relevant	Not relevant	950 mg/m ³	Not relevant
d-limonene	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 5989-27-5	Dermal	Not relevant	Not relevant	9,5 mg/kg	Not relevant
EC: 227-813-5	Inhalation	Not relevant	Not relevant	66,7 mg/m ³	Not relevant
Piperonal	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 120-57-0	Dermal	Not relevant	Not relevant	2,5 mg/kg	Not relevant
EC: 204-409-7	Inhalation	Not relevant	Not relevant	17,6 mg/m ³	Not relevant
Linalyl acetate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 115-95-7	Dermal	Not relevant	Not relevant	2,5 mg/kg	Not relevant
EC: 204-116-4	Inhalation	Not relevant	Not relevant	2,75 mg/m ³	Not relevant
Linalool	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 78-70-6	Dermal	Not relevant	Not relevant	3,5 mg/kg	Not relevant
EC: 201-134-4	Inhalation	Not relevant	Not relevant	24,58 mg/m ³	Not relevant
Citronellol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 106-22-9	Dermal	Not relevant	Not relevant	327,4 mg/kg	Not relevant
EC: 203-375-0	Inhalation	Not relevant	10 mg/m ³	161,6 mg/m ³	10 mg/m ³
3-p-cumenyl-2-methylpropionaldehyde	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 103-95-7	Dermal	Not relevant	Not relevant	1,67 mg/kg	Not relevant
EC: 203-161-7	Inhalation	Not relevant	Not relevant	5,83 mg/m ³	Not relevant

DNEL (General population):

		Short exposure		Long exposure	
Identification	Systemic	Local	Systemic	Local	
ethanol	Oral	Not relevant	Not relevant	87 mg/kg	Not relevant
CAS: 64-17-5	Dermal	Not relevant	Not relevant	206 mg/kg	Not relevant
EC: 200-578-6	Inhalation	Not relevant	Not relevant	114 mg/m ³	Not relevant
d-limonene	Oral	Not relevant	Not relevant	4,8 mg/kg	Not relevant
CAS: 5989-27-5	Dermal	Not relevant	Not relevant	4,8 mg/kg	Not relevant
EC: 227-813-5	Inhalation	Not relevant	Not relevant	16,6 mg/m ³	Not relevant
Piperonal	Oral	Not relevant	Not relevant	1,25 mg/kg	Not relevant
CAS: 120-57-0	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
EC: 204-409-7	Inhalation	Not relevant	Not relevant	4,3 mg/m ³	Not relevant
Linalyl acetate	Oral	Not relevant	Not relevant	0,2 mg/kg	Not relevant
CAS: 115-95-7	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
EC: 204-116-4	Inhalation	Not relevant	Not relevant	0,68 mg/m ³	Not relevant
Linalool	Oral	Not relevant	Not relevant	2,49 mg/kg	Not relevant
CAS: 78-70-6	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
EC: 201-134-4	Inhalation	Not relevant	Not relevant	4,33 mg/m ³	Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short e	xposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Citronellol	Oral	Not relevant	Not relevant	13,8 mg/kg	Not relevant
CAS: 106-22-9	Dermal	Not relevant	Not relevant	196,4 mg/kg	Not relevant
EC: 203-375-0	Inhalation	Not relevant	10 mg/m ³	47,8 mg/m ³	10 mg/m ³
3-p-cumenyl-2-methylpropionaldehyde	Oral	Not relevant	Not relevant	0,83 mg/kg	Not relevant
CAS: 103-95-7	Dermal	Not relevant	Not relevant	0,83 mg/kg	Not relevant
EC: 203-161-7	Inhalation	Not relevant	Not relevant	1,45 mg/m ³	Not relevant

PNEC:

Identification				
ethanol	STP	580 mg/L	Fresh water	0,96 mg/L
CAS: 64-17-5	Soil	0,63 mg/kg	Marine water	0,79 mg/L
EC: 200-578-6	Intermittent	2,75 mg/L	Sediment (Fresh water)	3,6 mg/kg
	Oral	0,38 g/kg	Sediment (Marine water)	2,9 mg/kg
d-limonene	STP	1,8 mg/L	Fresh water	0,014 mg/L
CAS: 5989-27-5	Soil	0,763 mg/kg	Marine water	0,0014 mg/L
EC: 227-813-5	Intermittent	Not relevant	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg
Piperonal	STP	10 mg/L	Fresh water	0,0025 mg/L
CAS: 120-57-0	Soil	0,00084 mg/kg	Marine water	0,00025 mg/L
EC: 204-409-7	Intermittent	0,025 mg/L	Sediment (Fresh water)	0,0119 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,0012 mg/kg
Linalyl acetate	STP	1 mg/L	Fresh water	0,011 mg/L
CAS: 115-95-7	Soil	0,115 mg/kg	Marine water	0,001 mg/L
EC: 204-116-4	Intermittent	0,11 mg/L	Sediment (Fresh water)	0,609 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,061 mg/kg
Linalool	STP	10 mg/L	Fresh water	0,2 mg/L
CAS: 78-70-6	Soil	0,327 mg/kg	Marine water	0,02 mg/L
EC: 201-134-4	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg
	Oral	0,0078 g/kg	Sediment (Marine water)	0,222 mg/kg
cis-4-tert-butylcyclohexyl acetate	STP	Not relevant	Fresh water	0,0012 mg/L
CAS: 10411-92-4	Soil	0,078 mg/kg	Marine water	0,00012 mg/L
EC: 233-881-7	Intermittent	0,012 mg/L	Sediment (Fresh water)	0,393 mg/kg
	Oral	0,06667 g/kg	Sediment (Marine water)	0,039 mg/kg
Citronellol	STP	580 mg/L	Fresh water	0,002 mg/L
CAS: 106-22-9	Soil	0,004 mg/kg	Marine water	0 mg/L
EC: 203-375-0	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,026 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,003 mg/kg
3-p-cumenyl-2-methylpropionaldehyde	STP	1 mg/L	Fresh water	0,00109 mg/L
CAS: 103-95-7	Soil	0,025 mg/kg	Marine water	0,00011 mg/L
EC: 203-161-7	Intermittent	0,01092 mg/L	Sediment (Fresh water)	0,126 mg/kg
	Oral	0,0333 g/kg	Sediment (Marine water)	0,013 mg/kg

8.2 **Exposure controls:**

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands



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Fragrance sticks_The Ritual of Karma_ KARMA EU REED 817914 10%

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

F	Pictogram	PPE	Labelling	CEN Standard	Remarks
	ndatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	CATII	EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictog	ıram	PPE	Labelling	CEN Standard	Remarks
		Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
		Anti-slip work shoes	CATI	EN ISO 20347:2022	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2022 y EN 13832-1:2019

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 68,26 % weight

V.O.C. density at 20 °C: 585,61 kg/m³ (585,61 g/L)

Average carbon number: 2,19
Average molecular weight: 48,5 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Liquid

Appearance: Characteristic

Colour: Characteristic

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Odour: Characteristic Odour threshold: Not relevant *

Volatility:

85 °C Boiling point at atmospheric pressure: Vapour pressure at 20 °C: 4560 Pa

21998,33 Pa (22 kPa) Vapour pressure at 50 °C:

Evaporation rate at 20 °C: Not relevant *

Product description:

857,9 kg/m³ Density at 20 °C:

0,858 Relative density at 20 °C:

Dynamic viscosity at 20 °C: Not relevant * Kinematic viscosity at 20 °C: Not relevant * Kinematic viscosity at 40 °C: Not relevant * Concentration: Not relevant *

pH: Not relevant * Vapour density at 20 °C: Not relevant * Partition coefficient n-octanol/water 20 °C: Not relevant * Solubility in water at 20 °C: Not relevant * Solubility properties: Not relevant * Decomposition temperature: Not relevant *

Melting point/freezing point: Not relevant *

Flammability:

Flash Point: 21 °C

Flammability (solid, gas): Not relevant * 225 °C Autoignition temperature: Not relevant * Lower flammability limit: Not relevant * Upper flammability limit:

Particle characteristics:

Median equivalent diameter: Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Not relevant * Oxidising properties: Not relevant * Corrosive to metals: Not relevant * Not relevant * Heat of combustion: Not relevant *

Aerosols-total percentage (by mass) of flammable

components:

Other safety characteristics:

Surface tension at 20 °C: Not relevant * Refraction index: Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

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SECTION 10: STABILITY AND REACTIVITY (continued)

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: ethanol (1); d-limonene (3); Benzyl acetate (3); 7-methyl-3-methyleneocta-1,6-diene (2B)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute	toxicity	Genus	
ethanol	LD50 oral	6200 mg/kg	Rat	
CAS: 64-17-5	LD50 dermal	20000 mg/kg	Rabbit	
EC: 200-578-6	LC50 inhalation vapour	124,7 mg/L	Rat	
d-limonene	LD50 oral	4400 mg/kg	Rat	
CAS: 5989-27-5	LD50 dermal	>5000 mg/kg	Rabbit	
EC: 227-813-5	LC50 inhalation vapour	>20 mg/L		
Piperonal	LD50 oral	2700 mg/kg	Rat	
CAS: 120-57-0	LD50 dermal	>2000 mg/kg		
EC: 204-409-7	LC50 inhalation vapour	>20 mg/L		
Linalyl acetate	LD50 oral	14500 mg/kg	Rat	
CAS: 115-95-7	LD50 dermal	5610 mg/kg	Rabbit	
EC: 204-116-4	LC50 inhalation vapour	>20 mg/L		
Linalool	LD50 oral	3000 mg/kg	Rat	
CAS: 78-70-6	LD50 dermal	5610 mg/kg	Rabbit	
EC: 201-134-4	LC50 inhalation vapour	>20 mg/L		
cis-4-tert-butylcyclohexyl acetate	LD50 oral	500 mg/kg	Rat	
CAS: 10411-92-4	LD50 dermal	>2000 mg/kg		
EC: 233-881-7	LC50 inhalation vapour	>20 mg/L		
Citronellol	LD50 oral	3450 mg/kg	Rat	
CAS: 106-22-9	LD50 dermal	2650 mg/kg		
EC: 203-375-0	LC50 inhalation vapour	>20 mg/L		
3-p-cumenyl-2-methylpropionaldehyde	LD50 oral	3810 mg/kg	Rat	
CAS: 103-95-7	LD50 dermal	>2000 mg/kg		
EC: 203-161-7	LC50 inhalation vapour	>20 mg/L		
Coumarin	LD50 oral	500 mg/kg		
CAS: 91-64-5	LD50 dermal	>2000 mg/kg		
EC: 202-086-7	LC50 inhalation vapour	>20 mg/L		
Isoeugenol	LD50 oral	1500 mg/kg	Rat	
CAS: 97-54-1	LD50 dermal	1100 mg/kg	Rat	
EC: 202-590-7	LC50 inhalation vapour	11 mg/L		

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

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SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Toxicity:

Acute toxicity:

Identification		Concentration	Species	Genus
ethanol	LC50	11000 mg/L (96 h)	Alburnus alburnus	Fish
CAS: 64-17-5	EC50	9268 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-578-6	EC50	1450 mg/L (192 h)	Microcystis aeruginosa	Algae
d-limonene	LC50	0,702 mg/L (96 h)	Pimephales promelas	Fish
CAS: 5989-27-5	EC50	0,577 mg/L (48 h)	Daphnia magna	Crustacean
EC: 227-813-5	EC50	Not relevant		
Linalyl acetate	LC50	11 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 115-95-7	EC50	15 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-116-4	EC50	62 mg/L (72 h)	Desmodesmus subspicatus	Algae
3-p-cumenyl-2-methylpropionaldehyde	LC50	1,092 mg/L (96 h)	N/A	Fish
CAS: 103-95-7	EC50	1,4 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-161-7	EC50	3,8 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
ethanol	NOEC	250 mg/L	Danio rerio	Fish
CAS: 64-17-5 EC: 200-578-6	NOEC	2 mg/L	Ceriodaphnia dubia	Crustacean
3-p-cumenyl-2-methylpropionaldehyde	NOEC	Not relevant		
CAS: 103-95-7 EC: 203-161-7	NOEC	0,71 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degra	adability	Biodegradab	ility
ethanol	BOD5	Not relevant	Concentration	100 mg/L
CAS: 64-17-5	COD	Not relevant	Period	14 days
EC: 200-578-6	BOD5/COD	Not relevant	% Biodegradable	89 %
d-limonene	BOD5	Not relevant	Concentration	10 mg/L
CAS: 5989-27-5	COD	Not relevant	Period	28 days
EC: 227-813-5	BOD5/COD	Not relevant	% Biodegradable	71,4 %
Linalyl acetate	BOD5	Not relevant	Concentration	81 mg/L
CAS: 115-95-7	COD	Not relevant	Period	28 days
EC: 204-116-4	BOD5/COD	Not relevant	% Biodegradable	80 %
Linalool	BOD5	Not relevant	Concentration	100 mg/L
CAS: 78-70-6	COD	Not relevant	Period	28 days
EC: 201-134-4	BOD5/COD	Not relevant	% Biodegradable	90 %
3-p-cumenyl-2-methylpropionaldehyde	BOD5	Not relevant	Concentration	Not relevant
CAS: 103-95-7	COD	Not relevant	Period	28 days
EC: 203-161-7	BOD5/COD	Not relevant	% Biodegradable	65,5 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential		
ethanol	BCF	3	
CAS: 64-17-5	Pow Log	-0.31	
EC: 200-578-6	Potential	Low	
d-limonene	BCF	660	
CAS: 5989-27-5	Pow Log	4.83	
EC: 227-813-5	Potential	High	

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential		
Linalyl acetate	BCF	174	
CAS: 115-95-7	Pow Log	3.9	
EC: 204-116-4	Potential	High	
Linalool	BCF		
CAS: 78-70-6	Pow Log	2.97	
EC: 201-134-4	Potential		
3-p-cumenyl-2-methylpropionaldehyde	BCF	102	
CAS: 103-95-7	Pow Log	3.05	
EC: 203-161-7	Potential	High	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volati	ility
ethanol	Koc	1	Henry	4,61E-1 Pa·m³/mol
CAS: 64-17-5	Conclusion	Very High	Dry soil	Yes
EC: 200-578-6	Surface tension	2,339E-2 N/m (25 °C)	Moist soil	Yes
d-limonene	Koc	6324	Henry	Not relevant
CAS: 5989-27-5	Conclusion	Immobile	Dry soil	Not relevant
EC: 227-813-5	Surface tension	2,675E-2 N/m (25 °C)	Moist soil	Not relevant
Linalyl acetate	Koc	518	Henry	177 Pa·m³/mol
CAS: 115-95-7	Conclusion	Low	Dry soil	Yes
EC: 204-116-4	Surface tension	Not relevant	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
07 01 04*	other organic solvents, washing liquids and mother liquors	Hazardous

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION **

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

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SECTION 14: TRANSPORT INFORMATION ** (continued)



14.1 UN number or ID number: UN1170

14.2 UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Transport hazard class(es): Labels: 3

14.4 Packing group: II 14.5 Environmental hazards: No

14.6 Special precautions for user

Special regulations: 144, 601 Tunnel restriction code: D/E Physico-Chemical properties: see section 9

Limited quantities: 11

14.7 Maritime transport in bulk according to IMO instruments:

Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

14.1 UN number or ID number: UN1170

14.2 UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Transport hazard class(es): Labels: 3 14.4 Packing group: П

14.5 Marine pollutant: Nο

14.6 Special precautions for user

Special regulations: 144 F-E, S-D EmS Codes: Physico-Chemical properties: see section 9

Limited quantities: 11

Segregation group: Not relevant 14.7 Maritime transport in bulk Not relevant according to IMO

instruments:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



14.1 UN number or ID number: UN1170

14.2 UN proper shipping name: ETHANOL SOLUTION

14.3 Transport hazard class(es): Labels: 3 14.4 Packing group: II 14.5 Environmental hazards: No

14.6 Special precautions for user Physico-Chemical properties: see section 9

14.7 Maritime transport in bulk

according to IMO instruments:

Not relevant

** Changes with regards to the previous version

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Article 95, REGULATION (EU) No 528/2012: ethanol (64-17-5) PT: (1,2,4,6)
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

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SECTION 15: REGULATORY INFORMATION (continued)

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

TRANSPORT INFORMATION (SECTION 14):

Packing group

Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation.

H225: Highly flammable liquid and vapour.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction. Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

Eye Irrit. 2: Calculation method

Flam. Liq. 2: Calculation method (2.6.4.3)

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

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SECTION 16: OTHER INFORMATION (continued)

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -

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