according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Linalool, pure

undertaking

article number: **3992** Version: **4.0 en** Replaces version of: 2022-08-09 Version: (3)

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

1.1 Product identifier

Identification of the substance	Linalool , pure
Article number	3992
Registration number (REACH)	01-2119474016-42-xxxx
Index number in CLP Annex VI	603-235-00-2
EC number	201-134-4
CAS number	78-70-6

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

Relevant identified uses:

Uses advised against:

Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

Laboratory chemical

Laboratory and analytical use

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Centre Beaumont Hospital	Beaumont Road	Dublin 9	+353 1 809 2166	https:// www.poisons.ie/

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	ection Hazard class		Hazard class and category	Hazard statement
3.2	3.2 Skin corrosion/irritation		Skin Irrit. 2	H315
3.3	3.3 Serious eye damage/eye irritation		Eye Irrit. 2	H319
3.45 Skin sensitisation		1B	Skin Sens. 1B	H317

For full text of abbreviations: see SECTION 16

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word	Warning
Pictograms	^
GHS07	
Hazard statements	-
H315	Causes skin irritation

H319 Causes serious eye irritation

Precautionary statements

Precautionary statements - prevention

P280

H317

Wear protective gloves/eye protection

May cause an allergic skin reaction

Precautionary statements - response

P302+P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)



н

317	May cause an allergic skin reaction.	

P280Wear protective gloves/eye protection.P302+P352IF ON SKIN: Wash with plenty of soap and water.P333+P313If skin irritation or rash occurs: Get medical advice/attenti	tion.
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2.3 Other hazards

This material is combustible, but will not ignite readily.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance	Linalool
Molecular formula	C ₁₀ H ₁₈ O
Molar mass	154,3 ^g / _{mol}
REACH Reg. No	01-2119474016-42-xxxx
CAS No	78-70-6
EC No	201-134-4
Index No	603-235-00-2

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Vomiting, Irritation, Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

none



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Specific designs for storage rooms or vessels Recommended storage temperature: 2 – 8 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Human health values

Relevant DNELs and other threshold levels Threshold Endpoint Protection goal, Used in **Exposure time** level route of exposure human, inhalatory DNEL 2,8 mg/m³ worker (industry) chronic - systemic effects DNEL 16,5 mg/m³ human, inhalatory worker (industry) acute - systemic effects DNEL 2,5 mg/kg bw/ human, dermal worker (industry) chronic - systemic effects day DNEL 5 mg/kg bw/day human, dermal worker (industry) acute - systemic effects

Environmental values



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Relevant	Relevant PNECs and other threshold levels					
End- point			Environmental com- partment	Exposure time		
PNEC	PNEC 0,2 ^{mg} / _l aquatic organisms freshwater		short-term (single instance)			
PNEC	0,02 ^{mg} / _l	0,02 ^{mg} / _l aquatic organisms marine water		short-term (single instance)		
PNEC	10 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)		
PNEC	2,22 ^{mg} / _{kg}	22 ^{mg} / _{kg} aquatic organisms freshwater sediment		short-term (single instance)		
PNEC	0,222 ^{mg} / _{kg} aquatic organisms marine sediment		short-term (single instance)			
PNEC	0,327 ^{mg} / _{kg}	0,327 ^{mg} / _{kg} terrestrial organisms soil		short-term (single instance)		

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

Butyl caoutchouc (butyl rubber)

material thickness

>0,3 mm 0,7mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 $^{\circ}$ C, colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	clear - colourless
Odour	characteristic
Melting point/freezing point	<-74 °C
Boiling point or initial boiling point and boiling range	198 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	0,9 vol% (LEL) - 5,2 vol% (UEL)
Flash point	77,2 °C at 101,3 kPa (ECHA)
Auto-ignition temperature	235 °C
Decomposition temperature	>200 °C
pH (value)	4,5 (in aqueous solution: 1,45 ^g / _l , 25 °C)
Kinematic viscosity	5,192 ^{mm²} / _s at 298,2 K
Dynamic viscosity	4,465 mPa s at 298,2 K
Solubility(ies)	
Water solubility	1,45 ^g / _l at 20 °C
Partition coefficient	
Partition coefficient n-octanol/water (log value):	2,9 (pH value: 7, 20 °C) (ECHA)
Vapour pressure	0,16 hPa at 20 °C
Density and/or relative density	
Density	0,86 ^g / _{cm³}
Relative vapour density	5,31 (air = 1)



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	Particle characteristics	not relevant (liquid)
	Other safety parameters	
	Oxidising properties	none
9.2	Other information	
	Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
	Other safety characteristics:	
	Temperature class (EU, acc. to ATEX)	T3 Maximum permissible surface temperature on the equipment: 200°C
SEC	TION 10: Stability and reactivity	

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

If heated

Vapours may form explosive mixtures with air.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Exothermic reaction with: Acids

10.4 Conditions to avoid

Keep away from heat. Decompostion takes place from temperatures above: >200 °C.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	2.790 ^{mg} / _{kg}	rat		ECHA
dermal	LD50	5.610 ^{mg} / _{kg}	rabbit		ECHA



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Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

vomiting, nausea

• If in eyes

Causes serious eye irritation

• If inhaled

irritant effects

• If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness

• Other information

none

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

11.3 Information on other hazards

There is no additional information.



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

quatic toxicity (acute)						
Endpoint	Value	Species	Source	Exposure time		
LC50	27,8 ^{mg} / _l	fish	ECHA	96 h		
EC50	59 ^{mg} / _l	aquatic invertebrates	ECHA	48 h		
ErC50	156,7 ^{mg} / _l	algae	ECHA	96 h		
quatic toxicity (chronic)						
Endpoint	Value	Species	Source	Exposure time		
EC50	>100 ^{mg} / _l	microorganisms	ECHA	30 min		

12.2 Persistence and degradability

Theoretical Oxygen Demand: 2,904 ^{mg}/_{mg} Theoretical Carbon Dioxide: 2,853 ^{mg}/_{mg}

Biodegradation

The substance is readily biodegradable.

Process of degradability				
Process Degradation rate Time				
oxygen depletion	40,9 %	5 d		

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	2,9 (pH value: 7, 20 °C) (ECHA)
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12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

- HP 4 irritant skin irritation and eye damage
- HP 13 sensitising

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 L	JN nun	າber or	ID n	umber
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- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

not subject to transport regulations

not assigned

none

not assigned

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.

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SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)					
Name of substance	Name acc. to inventory	CAS No	Restriction	No	
Linalool	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3	
Linalool	substances in tattoo inks and perman- ent make-up		R75	75	

Legend

R3

1. 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,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume,

or both, if they

a can be used as fuel in decorative oil lamps for supply to the general public, and
present an aspiration hazard and are labelled with H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN). 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black on a containers not exceeding 1 litre by 1 December 2010;

opaque containers not exceeding 1 litre by 1 December 2010.';



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Legen	d
R75	1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such sub-
	stances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or
	are present in the following circumstances:
	(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, the substance is present in the mixture in a concentration
	equal to or greater than 0,00005 % by weight;
	(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant
	category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by
	weight;
	(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser cat-
	egory 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
	(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive cat-
	egory 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the
	substance is present in the mixture in a concentration equal to or greater than
	(i) 0,1 % by weight, if the substance is used solely as a pH regulator;
	(ii) 0,01 % by weight, in all other cases; (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the
	mixture in a concentration equal to or greater than 0,00005 % by weight;
	(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g
	(Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the
	mixture in a concentration equal to or greater than 0,00005 % by weight:
	(i) "Rinse-off products"; (ii) "Not to be used in products applied on mucous membranes";
	(iii) "Not to be used in eye products";
	(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use
	preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in
	the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
	(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concen-
	tration equal to or greater than the concentration limit specified for that substance in that Appendix. 2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mix-
	ture into a person's skin, mucous membrane or eveball, by any process or procedure (including procedures com-
	monly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of
	making a mark or design on his or her body.
	3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest
	concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of
	paragraph 1 shall apply to that substance.
	4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
	(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
	(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
	5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a sub- stance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such
	that it then falls within a different one of those points from the one within which it fell previously, and the date of ap-
	plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, para-
	graph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as
	taking effect on the date of application of that new or revised classification.
	6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or
	such that it then falls within a different one of those points from the one within which it fell previously, and the
	amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry,
	that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the
	date falling 18 months after entry into force of the act by which that amendment was made.
	7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
	(a) the statement "Mixture for use in tattoos or permanent make-up";
	(b) a reference number to uniquely identify the batch:
	(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient
	names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the
	IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall
	be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Im-
	purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of
	this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredi-
	ent does not need to be marked in accordance with this Regulation;
	(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentra-
	tion limit specified in Appendix 13;
	(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below
	the concentration limit specified in Appendix 13;
	(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No
	1272/2008.
	The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the
	market, unless the Member State(s) concerned provide(s) otherwise.
	Where necessary because of the size of the package, the information listed in the first subparagraph, except for point
	(a), shall be included instead in the instructions for use.
	Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the
	procedure with the information marked on the package or included in the instructions for use pursuant to this para-
	graph.

graph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

Seveso Directive

2012/18/EU (Seveso III)					
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes		
	not assigned				

Deco-Paint Directive

VOC content	100 %
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Industrial Emissions Directive (IED)

VOC content	100 %
-------------	-------

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

ist of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Linalool	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed



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Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

AIIC Australian Inventory of Industrial Chemicals CICR Chemical Inventory and Control Regulation CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS) DSL Domestic Substances List (DSL) ECSI EC Substance Inventory (EINECS, ELINCS, NLP) IECSC Inventory of Existing Chemical Substances Produced or Imported in China INSQ National Inventory of Chemical Substances KECI Korea Existing Chemicals Inventory NCI National Chemical Inventory NCI National Chemical Inventory NZIOC New Zealand Inventory of Chemicals and Chemical Substances (PICCS) REACH Reg. REACH registered substances TCSI Taiwan Chemical Substance Inventory TSCA Toxic Substance Control Act

15.2 Chemical safety assessment

According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.



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SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional in- formation: Not subject to ADR, RID and ADN.		yes
15.1		National inventories: change in the listing (table)	yes
15.2	Chemical Safety Assessment: No Chemical Safety Assessment has been car- ried out for this substance.	Chemical safety assessment: According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008

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Abbr.	Descriptions of used abbreviations
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.