

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

LU-2 ROYAL SHINE

version number: GHS 1.0

date of compilation: 2024-05-27

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

1.1 Product identifier

Trade name **LU-2 ROYAL SHINE**
Registration number (REACH) Not relevant (Mixture)
Unique formula identifier(UFI) F110-00WY-W00Q-S6YS

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

Relevant identified uses Dye
Uses advised against Not determined

1.3 Details of the supplier of the safety data sheet

1240.design sp. z o. o.
Al. Wyścigowa 14a/204
02-681 Warszawa
Poland

Telephone: +48 723 284 777
e-mail: info@1240.design

1.4 Emergency telephone number

National Toxicology Information Center: 00421- (0) 2-547 741 66,
24-hour consultation service for acute intoxications

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	3	Flam. Liq. 3	H226
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	Skin sensitisation	1	Skin Sens. 1	H317
3.8R	Specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
3.10	Aspiration hazard	1	Asp. Tox. 1	H304
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word DANGER

Pictograms

GHS02, GHS07,
GHS08, GHS09



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Hazard statements

H226	Flammable liquid and vapour.
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.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of 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.
P312	Call a POISON CENTRE/doctor if you feel unwell.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labelling

Lemon, ext.
Silver(1+) neodecanoate
Rosemary, ext.
Turpentine, oil
Spanish spike oil
Peppermint oil
Lavandin Oil
Eucalyptus globulus oil

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Silver(1+) neodecanoate	CAS No 68683-18-1 EC No 272-065-5	10 - < 25	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335	
Lemon, ext.	CAS No 8008-56-8 EC No 284-515-8	10 - < 25	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
benzyl alcohol	CAS No 100-51-6 EC No 202-859-9 Index No 603-057-00-5	5 - < 10	Acute Tox. 4 / H302 Acute Tox. 4 / H332	GHS-HC
turpentine, oil	CAS No 8006-64-2 EC No 232-350-7 Index No 650-002-00-6	5 - < 10	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	GHS-HC 2
Terpineol	CAS No 8000-41-7 EC No 232-268-1	5 - < 10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
Cyclohexanol	CAS No 108-93-0 EC No 203-630-6 Index No 603-009-00-3 REACH Reg. No 01-2119447488-26-xxxx 01-2119994288-18-xxxx	5 - < 10	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 Aquatic Chronic 3 / H412	
Rosemary, ext.	CAS No 8000-25-7 84604-14-8 EC No 283-291-9	5 - < 10	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 STOT SE 2 / H371 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
Spanish spike oil	CAS No 8016-78-2 EC No 616-988-7	1 - < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
Peppermint oil	CAS No 8006-90-4 EC No 616-900-7	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 2 / H411	
sulfur	CAS No 7704-34-9 EC No 231-722-6 Index No 016-094-00-1	1 - < 5	Skin Irrit. 2 / H315	GHS-HC

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Eucalyptus globulus oil	CAS No 8000-48-4 EC No 616-775-9	1 - <5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
Lavandin Oil	CAS No 8022-15-9 EC No 617-009-6	1 - <5	Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412	

Notes

2: Koncentrácia terpentínu nameraná

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Cyclohexanol	-	-	500 mg/kg 1,100 mg/kg >3.6 mg/l/4h	oral dermal inhalation: dust/mist
turpentine, oil	-	-	500 mg/kg 1,100 mg/kg 13.7 mg/l/4h	oral dermal inhalation: vapour
benzyl alcohol	-	-	1,580 mg/kg 11 mg/l/4h >4.178 mg/l/4h	oral inhalation: vapour inhalation: dust/mist

Remarks

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. Take off immediately all contaminated clothing. If skin irritation persists, call a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Aspiration hazard. Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Description of known symptoms following exposure, if relevant - see section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. Alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

May release hazardous gases at high temperatures

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Fire fighting crew should be adequately trained and equipped with self-contained breathing apparatus and full protective clothing. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Stop the leak if possible and safe to do so (seal, close the liquid isolation valve, put the leaking or damaged container to emergency container). Eliminate all sources of ignition. Do not breathe vapours/spray.

For non-emergency personnel

Remove persons to safety. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Use mechanical handling equipment

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal.

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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Comply with the current legislation concerning the prevention of industrial risks. Control spills and residues, destroying them with safe methods (section 6). Containers which were opened must be carefully closed and kept upright to prevent leakage. Use adequate ventilation. Do not breathe vapours/spray.

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Protect from frost and direct sunlight.

Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight. Ensure easy access to fire fighting measures in the place of use and storage.

Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
IE	cyclohexanol	108-93-0	OELV	50	200						S.I. No. 619 of 2001
IE	turpentine, oil	8006-64-2	OELV	20	112	150	840				S.I. No. 619 of 2001

Notation

Ceiling-C
STEL

Ceiling value is a limit value above which exposure should not occur
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

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Notation

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Cyclohexanol	108-93-0	DNEL	40.3 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Cyclohexanol	108-93-0	DNEL	1.43 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Rosemary, ext.	8000-25-7 84604-14-8	DNEL	14.69 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Rosemary, ext.	8000-25-7 84604-14-8	DNEL	4.17 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lavandin Oil	8022-15-9	DNEL	0.877 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Lavandin Oil	8022-15-9	DNEL	0.249 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Cyclohexanol	108-93-0	PNEC	0.019 mg/l	aquatic organisms	freshwater	short-term (single instance)
Cyclohexanol	108-93-0	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
Cyclohexanol	108-93-0	PNEC	199.5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Cyclohexanol	108-93-0	PNEC	0.09 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Cyclohexanol	108-93-0	PNEC	0.009 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Cyclohexanol	108-93-0	PNEC	0.007 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. Protective gloves should be replaced immediately if damaged or in case of signs of wear.

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Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Chemical protection suit. Footwear protecting against chemicals.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. 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	Brown
Odour	Characteristic
Melting point/freezing point	Not determined
Boiling point or initial boiling point and boiling range	>35 °C at 1,013 hPa
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	Not determined
Flash point	26 °C at 1,013 hPa
Auto-ignition temperature	265 °C Auto-ignition temperature (liquids and gases)
Decomposition temperature	Not relevant
PH (value)	Not determined
Kinematic viscosity	Not determined
Solubility(ies)	Not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	This information is not available
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Vapour pressure	2,643 Pa at 25 °C
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Density and/or relative density

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Density	Not determined
Relative vapour density	information on this property is not available
Particle characteristics	Not relevant - Liquid
9.2 Other information	
Information with regard to physical hazard classes	Hazard classes acc. to GHS (Physical hazards):
Flammable liquids	Category 3: flammable liquid
Other safety characteristics	
Temperature class (EU, acc. to ATEX)	T3 Maximum permissible surface temperature on the equipment: 200°C

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

If heated

Risk of ignition.

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

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

oxidisers, strong acids, strong bases

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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

Acute toxicity

Not classified as a mixture with acute toxicity.

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Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
Cyclohexanol	108-93-0	oral	500 mg/kg
Cyclohexanol	108-93-0	dermal	1,100 mg/kg
Cyclohexanol	108-93-0	inhalation: dust/mist	>3.6 mg/l/4h
turpentine, oil	8006-64-2	oral	500 mg/kg
turpentine, oil	8006-64-2	dermal	1,100 mg/kg
turpentine, oil	8006-64-2	inhalation: vapour	13.7 mg/l/4h
benzyl alcohol	100-51-6	oral	1,580 mg/kg
benzyl alcohol	100-51-6	inhalation: vapour	11 mg/l/4h
benzyl alcohol	100-51-6	inhalation: dust/mist	>4.178 mg/l/4h

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Cyclohexanol	108-93-0	inhalation: dust/mist	LC50	>3.6 mg/l/4h	rat
benzyl alcohol	100-51-6	oral	LD50	1,620 mg/kg	unknown
Spanish spike oil	8016-78-2	oral	LD50	>5,000 mg/kg	rat
Lavandin Oil	8022-15-9	oral	LD50	>5,000 mg/kg	rat
Lavandin Oil	8022-15-9	dermal	LD50	>5,000 mg/kg	rabbit

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

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

Vomiting. Abdominal pain.

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If in eyes

Irritation.

If inhaled

Cough, pain, choking, and breathing difficulties.

If aspirated

Death following aspiration.

If on skin

Localised redness. Allergic skin reaction.

11.2 Information on other hazards

There is no additional information.

Endocrine disrupting properties

The mixture does not contain substance(s) with an endocrine disrupting potential.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Cyclohexanol	108-93-0	LC50	704 mg/l	fish	96 h
Cyclohexanol	108-93-0	EC50	17 mg/l	aquatic invertebrates	48 h
Cyclohexanol	108-93-0	ErC50	>500 mg/l	algae	72 h
Rosemary, ext.	8000-25-7 84604-14-8	LL50	3.9 mg/l	fish	96 h
Rosemary, ext.	8000-25-7 84604-14-8	EL50	4.7 mg/l	aquatic invertebrates	48 h
turpentine, oil	8006-64-2	LL50	45.1 mg/l	zebra fish (Danio rerio)	96 h
turpentine, oil	8006-64-2	EL50	6.4 mg/l	daphnia	48 h
turpentine, oil	8006-64-2	EL50	22.5 mg/l	algae	72 h
benzyl alcohol	100-51-6	LC50	770 mg/l	fish	24 h
benzyl alcohol	100-51-6	EC50	230 mg/l	aquatic invertebrates	48 h
benzyl alcohol	100-51-6	ErC50	770 mg/l	algae	72 h
Spanish spike oil	8016-78-2	EL50	14 mg/l	aquatic invertebrates	48 h
sulfur	7704-34-9	LC50	866 mg/l	striped brill (Brachydanio rerio)	96 h
sulfur	7704-34-9	EC50	≥5,000 mg/l	daphnia magna	48 h
Lavandin Oil	8022-15-9	LL50	17 mg/l	fish	96 h
Lavandin Oil	8022-15-9	EL50	34.56 mg/l	aquatic invertebrates	24 h

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Cyclohexanol	108-93-0	EC50	1.775 mg/l	aquatic invertebrates	21 d
Cyclohexanol	108-93-0	EbC50	>0.953 mg/l	aquatic invertebrates	21 d
benzyl alcohol	100-51-6	EC50	66 mg/l	aquatic invertebrates	21 d
Lavandin Oil	8022-15-9	EC50	1,230 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Biodegradation

Poorly biodegradable.

Degradability of components						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Cyclohexanol	108-93-0	oxygen depletion	>94 - <99 %	28 d		ECHA
Rosemary, ext.	8000-25-7 84604-14-8	oxygen depletion	67 %	28 d		ECHA
turpentine, oil	8006-64-2	oxygen depletion	72 %	28 d		
benzyl alcohol	100-51-6	oxygen depletion	92 - 96 %	14 d		ECHA
benzyl alcohol	100-51-6	DOC removal	95 %	21 d		ECHA
Lavandin Oil	8022-15-9	carbon dioxide generation	108.3 %	28 d		ECHA

12.3 Bioaccumulative potential

Bioaccumulation is not expected.

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Cyclohexanol	108-93-0		1.25 (pH value: 7, 25 °C)	
Rosemary, ext.	8000-25-7 84604-14-8		≥2.85 - ≤6.3	
benzyl alcohol	100-51-6		1 (20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste should be recovered or disposed of in authorized incineration plants or waste facilities in accordance with applicable regulations.

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID	UN 1263
IMDG-Code	UN 1263
ICAO-TI	UN 1263

14.2 UN proper shipping name

ADR/RID	PAINT
IMDG-Code	PAINT
ICAO-TI	Paint

14.3 Transport hazard class(es)

ADR/RID	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

ADR/RID	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

Environmentally hazardous substance (aquatic environment)	Hazardous to the aquatic environment Lemon, ext.
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14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) Additional information

Classification code	F1
Danger label(s)	3 Fish and tree



Environmental hazards

Yes
Hazardous to the aquatic environment

Special provisions (SP)

163, 367, 650

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Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	D/E
Hazard identification No	30
Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information	
Classification code	F1
Danger label(s)	3 Fish and tree



Environmental hazards	Yes Hazardous to water
Special provisions (SP)	163, 367, 650
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Hazard identification No	30
International Maritime Dangerous Goods Code (IMDG)Additional information	
Marine pollutant	Yes Hazardous to the aquatic environment
Danger label(s)	3 Fish and tree



Special provisions (SP)	163, 223, 367, 955
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, <u>S-E</u>
Stowage category	A
International Civil Aviation Organization (ICAO-IATA/DGR)Additional information	
Environmental hazards	Yes Hazardous to the aquatic environment
Danger label(s)	3



Special provisions (SP)	A3, A72, A192
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 L

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

The product and listed ingredients are subject to the following restrictions, according to REACH Annex XVII.
None of these restrictions are applicable for the identified use of the product

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance	Name acc. to inventory	CAS No	No
LU-2 ROYAL SHINE	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
turpentine, oil	flammable / pyrophoric		40
turpentine, oil	substances in tattoo inks and permanent make-up		75
Peppermint oil	substances in tattoo inks and permanent make-up		75
Cyclohexanol	substances in tattoo inks and permanent make-up		75
Eucalyptus globulus oil	flammable / pyrophoric		40
Eucalyptus globulus oil	substances in tattoo inks and permanent make-up		75
sulfur	substances in tattoo inks and permanent make-up		75
Rosemary, ext.	flammable / pyrophoric		40
Rosemary, ext.	substances in tattoo inks and permanent make-up		75
Lavandin Oil	substances in tattoo inks and permanent make-up		75
Spanish spike oil	flammable / pyrophoric		40
Spanish spike oil	substances in tattoo inks and permanent make-up		75
Lemon, ext.	flammable / pyrophoric		40
Lemon, ext.	substances in tattoo inks and permanent make-up		75

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

none of the ingredients are listed

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

none of the ingredients are listed

Water Framework Directive (WFD)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

15.2 Chemical safety assessment

The Chemical Safety Assessment is not required for the mixture.

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SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EbC50	≡ 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
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 identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
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
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code

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Abbr.	Descriptions of used abbreviations
IMDG-Code	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
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
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
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).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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

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Code	Text
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H371	May cause damage to organs.
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.

Disclaimer

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