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

1.1 Product identifier

Hardwax Plus
UFI: YTWX-G8HH-N206-RSRR

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

1.2.1 Relevant uses

Corrosion protection

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company
Waxoyl GmbH
Hermann-Albertz-Str. 17-23
46045 Oberhausen / GERMANY
Phone +49 (0)208 410 221
E-mail info@waxoyl.ch

Manufacturer
Waxoyl AG
Mühlemattstrasse 24
4104 Oberwil / SWITZERLAND
Phone +41 61 281 77 94
Homepage www.waxoyl.com
E-mail info@waxoyl.ch

Address enquiries to

Technical information info@waxoyl.ch

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)
Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body +356 2545 4030 Mater Dei Hospital

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Liq. 3: H226 Flammable liquid and vapour.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms





Signal word WARNING

Contains: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazard statements
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful 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.
P243 Take precautionary measures against static discharge.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling EUH066 Repeated exposure may cause skin dryness or cracking.

Contains: Sulfonic acids, petroleum, calcium salts. EUH208 May produce an allergic reaction.

2004/42/CE 493,7 g/L II A i SB One-pack performance coatings (max. 500 g/l)

2.3 Other hazards

Physico-chemical hazards Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Human health hazards If swallowed or in the event of vomiting, risk of product entering the lungs.
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Further hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - < 60	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	EINECS/ELINCS: 919-857-5, Reg-No.: 01-2119463258-33-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Asp. Tox. 1: H304 - STOT SE 3: H336 - EUH066
10 - < 25	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	EINECS/ELINCS: 927-241-2, Reg-No.: 01-2119471843-32-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 3: H412 - EUH066
5 - < 10	Sulfonic acids, petroleum, calcium salts
	CAS: 61789-86-4, EINECS/ELINCS: 263-093-9, Reg-No.: 01-2119488992-18-XXXX
	GHS/CLP: Skin Sens. 1B: H317
	SCL [%]: >= 10: Skin Sens. 1B: H317
1 - < 3	Phosphoric acid, C11-14-isoalkyl esters, C13-rich
	CAS: 154518-38-4, EINECS/ELINCS: 800-484-0, Reg-No.: 01-2119976356-25-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411
< 1	Alcohols, C11-14-iso-, C13-rich
	CAS: 68526-86-3, EINECS/ELINCS: 271-235-6, Reg-No.: 01-2119454259-32-XXXX
	GHS/CLP: Skin Irrit. 2: H315 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411, M-Factor (acute): 1

Comment on component parts For full text of H-statements: see SECTION 16.
Contains less than 3 % w/w DMSO-extract (only for mineral oils).

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Remove the victim into fresh air and keep him calm.
In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion Get medical advice.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Drowsiness
Vertigo
Irritant effects
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Dry powder.
Foam.
Carbon dioxide.
Water spray jet.

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.

Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
High risk of slipping due to leakage/spillage of product.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide suitable vacuuming at the processing machines.
Provide good room ventilation even at ground level (vapours are heavier than air).
Use solvent-resistant equipment.
Avoid spilling or spraying in enclosed areas.

Keep away from all sources of ignition.
Vapours can form an explosive mixture with air.
Take precautionary measures against static discharges.
Ignitable mixtures can be formed in the empty container.

Do not eat, drink, smoke or snuff while working.
Take off contaminated clothing and wash before reuse.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
Keep only in original container.
Prevent penetration into the ground.

Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.

Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (MT)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
Industrial, inhalative, Long-term - systemic effects, 147,9 mg/m³
Industrial, dermal, Long-term - systemic effects, 417 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 43,5 mg/m³
general population, dermal, Long-term - systemic effects, 250 mg/kg bw/day
general population, oral, Long-term - systemic effects, 25 mg/kg bw/day
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Industrial, dermal, Long-term - systemic effects, 77 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 871 mg/m³
general population, inhalative, Long-term - systemic effects, 185 mg/m³
general population, dermal, Long-term - systemic effects, 46 mg/kg bw/day
general population, oral, Long-term - systemic effects, 46 mg/kg bw/day
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
Industrial, inhalative, Long-term - systemic effects, 34,94 mg/m³
Industrial, dermal, Long-term - systemic effects, 100,13 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 10,43 mg/m³
general population, dermal, Long-term - systemic effects, 60,08 mg/kg bw/day
general population, oral, Long-term - systemic effects, 6,01 mg/kg bw/day
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
Industrial, inhalative, Long-term - systemic effects, 11,75 mg/m³
Industrial, dermal, Long-term - systemic effects, 3,33 mg/kg bw/d
Industrial, dermal, Long-term - local effects, 1,03 mg/cm²
general population, inhalative, Long-term - systemic effects, 2,9 mg/m³
general population, dermal, Long-term - systemic effects, 1,667 mg/kg bw/day
general population, dermal, Long-term - local effects, 0,513 mg/cm²
general population, oral, Long-term - systemic effects, 0,833 mg/kg bw/day
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Industrial, inhalative, Long-term - systemic effects, 871 mg/m³
Industrial, dermal, Long-term - systemic effects, 77 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 185 mg/m³
general population, dermal, Long-term - systemic effects, 46 mg/kg bw/day
general population, oral, Long-term - systemic effects, 46 mg/kg bw/day

PNEC

Substance
Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
freshwater, 0,005 mg/L
seawater, 0,5 µg/L
sewage treatment plants (STP), 105,3 mg/L
sediment (freshwater), 0,37 mg/kg sediment dw
sediment (seawater), 0,04 mg/kg sediment dw
soil, 0,15 mg/kg soil dw
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
There are no PNEC values established for the substance.

Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
freshwater, 0,0063 mg/L
seawater, 0,00063 mg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 0,113 mg/kg
sediment (seawater), 0,0113 mg/kg
soil, 0,0188 mg/kg
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
freshwater, 1 mg/l (AF=1000)
seawater, 1 mg/l (AF=10000)
sewage treatment plants (STP), 1000 mg/l (AF=10)
sediment (freshwater), 226 000 000 mg/kg dw
sediment (seawater), 226 000 000 mg/kg dw
soil, 271 000 000 mg/kg dw
oral (food), 16,667 mg/kg food
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
There are no PNEC values established for the substance.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,4mm Butyl rubber, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	Liquid
Color	black
Odor	characteristic
Odour threshold	not relevant
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	154 - 193 (309 - 380 °F)
Flash point [°C]	36 (97°F)
Flammability	not applicable
Lower explosion limit	ca. 0,6 Vol.%
Upper explosion limit	ca. 7 Vol.%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	0,3 (20°C)
Density [g/cm³]	0,86 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water [g/L]	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not determined
Kinematic viscosity	> 20,5 mm²/s (40°C)
Relative vapour density	not determined
Melting point [°C]	not determined
Auto-ignition temperature [°C]	not determined
Decomposition temperature [°C]	not applicable
Particle characteristics	not relevant

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Reactions with strong oxidizing agents.
Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg

Substance
Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
LD50, oral, Rat, > 2000 mg/kg bw
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, oral, Rat, > 15000 mg/kg (OECD 401)
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
LD50, oral, Rat, > 2000 mg/kg (OECD 420)
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
LD50, oral, Rat, >5000 mg/kg bw
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, oral, Rat, 15000 mg/kg

Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg

Substance
Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
LD50, dermal, Rat, > 2000 mg/kg bw
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, dermal, Rabbit, > 3160 mg/kg (OECD 402)
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
LD50, dermal, Rat, > 2000 mg/kg
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
LD50, dermal, Rabbit, > 5000 mg/kg bw >5000 mg/kg bw
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, dermal, Rabbit, > 3160 mg/kg

Acute inhalational toxicity

Product
ATE-mix, inhalation (vapour), > 20 mg/l 4h

Substance
Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
LC50, inhalative, mouse, > 12,2 ppm (6 h)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LC50, inhalative, Rat, > 6100 mg/m³ (OECD 403)
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
LC50, inhalative, Rat, >1.9 mg/L air
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LC50, inhalative, Rat, > 5000 mg/m³/8h

Serious eye damage/irritation Irritant
Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Calculation method

Substance

Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
Eye, non-irritating
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Eye, non-irritating
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
Eye, irritant
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
Eye, no adverse effect observed
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Eye, non-irritating

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Substance
Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
dermal, irritant
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
dermal, non-irritating
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
dermal, irritant
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
dermal, no adverse effect observed
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
dermal, non-irritating

Respiratory or skin sensitisation

No classification due to substance-specific concentration limits.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Substance
Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
dermal, non-sensitizing
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
dermal, non-sensitizing
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
dermal, non-sensitizing
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
dermal, sensitising
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
dermal, non-sensitizing

Specific target organ toxicity — single exposure

Vapours may cause drowsiness and dizziness.
Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Calculation method

Specific target organ toxicity — repeated exposure

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Substance
Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
NOAEL, oral, Rat, 300 - 700 mg/kg bw/day
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed
NOAEC, inhalative, Rat, 10400 mg/m³, no adverse effect observed
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
BMDL10, oral, Rat, 240,3 mg/kg bw/day, adverse effect observed
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

NOAEL, oral, Rat, 500 mg/kg bw/day, adverse effect observed
NOAEL, dermal, Rat, 1000 mg/kg bw/day, no adverse effect observed
NOAEC, inhalative, Rat, 881,58 mg/m³, no adverse effect observed
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
NOAEL, oral, Rat, 500 mg/kg bw/day, negative
NOAEL, inhalative, Rat, 6000 mg/m³, negative

Mutagenicity

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Substance
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
in vitro, negative
in vivo, negative
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
in vitro, negative
in vivo, negative

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

- Fertility

Substance
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
NOAEL, oral, Rat, 1000 mg/kg bw/da, no adverse effect observed

- Development

Substance
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
NOAEC, inhalative, Rat, 220 mg/m³, no adverse effect observed
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
NOAEL, oral, Rat, 316 mg/kg bw/day, no adverse effect observed
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
NOAEC, inhalative, Rat, 5220 mg/m³

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Aspiration hazard

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

General remarks

none

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information

none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Alcohols, C11-14-iso-, C13-rich, CAS: 68526-86-3
LC50, (96h), Fish, 420 µg/L
EC50, (72h), Algae, 2,6 - 3,2 mg/L
EL50, (48h), Invertebrates, 710 µg/L
NOEC, (72h), Algae, 1,5 - 2,2 mg/L
LL50, (96h), Fish, 640 µg/L
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EL50, (48h), Daphnia magna, 22 - 46 mg/l
EL50, (72h), Pseudokirchneriella subcapitata, > 1000 mg/l
NOELR, (72h), Pseudokirchneriella subcapitata, < 1 mg/l
LL50, (96h), Oncorhynchus mykiss, 10 - 30 mg/l
Phosphoric acid, C11-14-isoalkyl esters, C13-rich, CAS: 154518-38-4
LC50, (96h), Fish, 24 mg/L
EC50, (24h), Invertebrates, > 100 mg/L
EC50, (72h), Algae, 150 mg/L
NOEC, (72h), Algae, 10 mg/L
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
NOEC, (72h), Pseudokirchneriella subcapitata, 1000 mg/l
LL50, (96h), Fish, > 10 000 mg/l
EC0, (48h), Daphnia magna, >1000 mg/l
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EL50, (72h), Algae, > 1000 mg/l
NOELR, (72h), Algae, 100 mg/l
LL50, (96h), Oncorhynchus mykiss, > 1000 mg/l
LL50, (48h), Daphnia magna, >1000 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

Substance
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
(28d), 8,6 %

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080111*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID	1139
Inland navigation (ADN)	1139
Marine transport in accordance with IMDG	1139
Air transport in accordance with IATA	1139

14.2 UN proper shipping name

Transport by land according to ADR/RID	Coating solution
- Classification Code	F1
- Label	
- ADR LQ	5 l
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (D/E)
Inland navigation (ADN)	Coating solution
- Classification Code	F1
- Label	
Marine transport in accordance with IMDG	Coating solution
- EMS	F-E, S-E
- Label	
- IMDG LQ	5 l
Air transport in accordance with IATA	Coating solution
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	3
Inland navigation (ADN)	3
Marine transport in accordance with IMDG	3
Air transport in accordance with IATA	3

14.4 Packing group

Transport by land according to ADR/RID	III
Inland navigation (ADN)	III
Marine transport in accordance with IMDG	III
Air transport in accordance with IATA	III

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 40
	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
TRANSPORT-REGULATIONS	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2026, 67th Edition)
NATIONAL REGULATIONS (MT):	
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	57,4 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H226 Flammable liquid and vapour.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H315 Causes skin irritation.
H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Flam. Liq. 3: H226 Flammable liquid and vapour. (On basis of test data)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

none

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