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

1.1 Product identifier

Gravelgard, liquid

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 AG
Seewenweg 5
4153 Reinach / SWITZERLAND
Phone +41-61-28177 94
Fax +41-61-28177 85
Homepage www.waxoyl.com
E-mail info@waxoyl.ch

Address enquiries to

Technical information info@waxoyl.ch

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

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

Flam. Liq. 2: H225 Highly flammable liquid and vapour.
Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms





Signal word DANGER

Contains: Ethyl acetate

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Hazard statements
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
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.
P280 Wear protective gloves / eye protection / face protection.
P260 Do not breathe vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P312 Call a POISON CENTER / doctor if you feel unwell.
P501 Dispose of contents/container in accordance with local/national regulation.

2004/42/CE < 600 g/L II B e Special finishes (max. 840 g/l)

2.3 Other hazards

Human health dangers Contains no ingredients with endocrine-disrupting properties.

Environmental hazards Does not contain any PBT or vPvB substances.

Other 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
10 - < 25	Ethyl acetate
	CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 - EUH066
10 - < 25	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
	EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
5 - < 10	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
	EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
5 - < 10	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
	CAS: 64742-49-0, EINECS/ELINCS: 920-750-0, Reg-No.: 01-2119473851-33-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Aquatic Chronic 2: H411 - STOT SE 3: H336 - EUH066
3 - < 5	Hydrocarbons, C9, aromatics
	EINECS/ELINCS: 918-668-5, Reg-No.: 01-2119455851-35-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H335 - Aquatic Chronic 2: H411 - Asp. Tox. 1: H304 - STOT SE 3: H336 - EUH066

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Remove person to fresh air and keep comfortable for breathing.
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 Seek medical advice immediately.
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

Headache
Drowsiness
Vertigo
Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

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 Carbon dioxide.
Foam.
Dry powder.
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

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
High risk of slipping due to leakage/spillage of product.
Ensure adequate ventilation.
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 area.
Use only in well-ventilated areas.
Use solvent-resistant equipment.

Keep away from all sources of ignition - Refrain from smoking.
Take precautionary measures against static discharges.
Vapours can form an explosive mixture with air.
Ignitable mixtures can be formed in the empty container.
Use explosion-proofed equipment/fittings and non-sparkling tools.
Risk of explosion if the liquid enters the drains.

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

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 (GB)

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX
Long-term exposure: 1200 mg/m³
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
CAS: 64742-49-0, EINECS/ELINCS: 920-750-0, Reg-No.: 01-2119473851-33-XXXX
Long-term exposure: 1200 mg/m³
Hydrocarbons, C9, aromatics
EINECS/ELINCS: 918-668-5, Reg-No.: 01-2119455851-35-XXXX
Long-term exposure: 100 mg/m³
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX
Long-term exposure: 1200 mg/m³
Ethyl acetate
CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
Long-term exposure: 200 ppm, 730 mg/m³
Short-term exposure (15-minute): 400 ppm, 1460 mg/m³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Ethyl acetate
CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
Eight hours: 200 ppm, 734 mg/m³
Short-term (15-minute): 400 ppm, 1468 mg/m³

DNEL

Substance
Ethyl acetate, CAS: 141-78-6
Industrial, inhalative, Acute - local effects, 1468 mg/m³
Industrial, inhalative, Long-term - systemic effects, 734 mg/m³
Industrial, inhalative, Long-term - local effects, 734 mg/m³
Industrial, inhalative, Acute - systemic effects, 1468 mg/m³
Industrial, dermal, Long-term - systemic effects, 63 mg/kg bw/d
general population, inhalative, Acute - systemic effects, 734 mg/m³
general population, inhalative, Long-term - local effects, 367 mg/m³
general population, inhalative, Long-term - systemic effects, 367 mg/m³
general population, oral, Long-term - systemic effects, 4,5 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 37 mg/kg bw/d
general population, inhalative, Acute - local effects, 734 mg/m³
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
Industrial, inhalative (vapor), Long-term - systemic effects, 2035 mg/m³
Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw
general population, dermal, Long-term - systemic effects, 699 mg/kg bw

general population, oral, Long-term - systemic effects, 699 mg/kg bw
general population, inhalative (vapor), Long-term - systemic effects, 608 mg/m³
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Industrial, inhalative, Long-term - systemic effects, 2085 mg/m³
Industrial, dermal, Long-term - systemic effects, 300 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 149 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 477 mg/m³
general population, oral, Long-term - systemic effects, 149 mg/kg bw/d
Hydrocarbons, C9, aromatics
Industrial, inhalative, Long-term - systemic effects, 150 mg/m³
Industrial, dermal, Long-term - systemic effects, 25 mg/kg/d
general population, dermal, Long-term - systemic effects, 11 mg/kg/d
general population, oral, Long-term - systemic effects, 11 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 32 mg/m³
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 2035 mg/m³
general population, oral, Long-term - systemic effects, 699 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 608 mg/m³
general population, dermal, Long-term - systemic effects, 699 mg/kg bw/d

PNEC

Substance
Ethyl acetate, CAS: 141-78-6
oral (food), 200 mg/kg
sewage treatment plants (STP), 650 mg/l
soil, 0,148 mg/kg
sediment (seawater), 0,115 mg/kg
sediment (freshwater), 1,15 mg/kg
seawater, 24 µg/L
freshwater, 240 µg/L
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
There are no PNEC values established for the substance.
Hydrocarbons, C9, 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 inhale gases/vapours/aerosols. 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
Color	black
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	77
Flash point [°C]	- 9 (DIN 53213)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	1 Vol.%
Upper explosion limit	11,5 Vol.%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	9,8 (20°C)
Density [g/cm³]	1,04 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	> 20,5 mm²/s 40°C
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	75 -78
Auto-ignition temperature	> 200°C
Decomposition temperature [°C]	not determined
Particle characteristics	not applicable

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

See SECTION 7.2.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

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

Substance
Ethyl acetate, CAS: 141-78-6
LD50, oral, Rat, 5620 mg/kg
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LD50, oral, Rat, > 5000 mg/kg
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
LD50, oral, Rat, > 3000 mg/kg bw
Hydrocarbons, C9, aromatics
LD50, oral, Rat, 3592 mg/kg (OECD 401)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, oral, Rat, > 5800 mg/kg

Acute dermal toxicity

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

Substance
Ethyl acetate, CAS: 141-78-6
LD50, dermal, Rabbit, 20000 mg/kg
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LD50, dermal, Rat, > 2800 mg/kg
Hydrocarbons, C9, aromatics
LD50, dermal, Rabbit, > 3160 mg/kg (OECD 402)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, dermal, Rabbit, > 3920 mg/kg

Acute inhalational toxicity

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

Substance
Ethyl acetate, CAS: 141-78-6
LC50, inhalative, Rat, 5,86 mg/l 4 h (Lit.)
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LC50, inhalative, Rat, > 23,3 mg/l (4h)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LC50, inhalative, Rat, > 25,2 mg/l 4h

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
Ethyl acetate, CAS: 141-78-6
Eye, Rabbit, Study, irritant
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
Rabbit, in vivo (Federal Register of the F.D.A. Test for e, non-irritating
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Eye, Rabbit, In vivo study, non-irritating
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
No information available.

Skin corrosion/irritation

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

Substance
Ethyl acetate, CAS: 141-78-6
dermal, Rabbit, negativ
Study, negativ
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
Rabbit, in vivo, OECD 404, non-irritating
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
dermal, Rabbit, OECD 404, irritant
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
dermal, Rabbit, OECD 404, irritant

Respiratory or skin sensitisation

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
Ethyl acetate, CAS: 141-78-6
dermal, Guinea pig, OECD 406, negativ
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
Guinea pig, in vivo (non-LLNA), OECD 406, non-sensitizing
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
No information available.
Hydrocarbons, C9, aromatics
dermal, non-sensitizing
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
No information available.

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

Substance
Ethyl acetate, CAS: 141-78-6
positive
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
No information available., positive

Specific target organ toxicity —

Does not contain a relevant substance that meets the classification criteria.

repeated exposure

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

Substance
Ethyl acetate, CAS: 141-78-6
NOAEL, oral, Rat, 900 mg/kg bw/day, Study, negativ
NOAEC, inhalative, Rat, 1.28 mg/L, Study, negativ
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
NOAEC, inhalative, Rat, 8117 mg/m³, OECD 413, no adverse effect observed
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
NOAEC, inhalative, Rat, 12470 mg/m³, Study, negativ
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, Rat, 8117 mg/m³, In vivo study, negativ

Mutagenicity

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

Substance
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
NOEL, oral, mouse, > 2000 mg/kg, OECD 474, no adverse effect observed
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
No information available.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Ames-test, negativ

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.

Substance
Ethyl acetate, CAS: 141-78-6
NOAEL, oral, mouse, 26400 mg/kg bw/day, Study, negativ
NOAEC, inhalative, Rat, 22 000 mg/m³, Study, negativ
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
NOAEL, inhalation (vapour), Rat, 9000 ppm, OECD 416, no adverse effect observed
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
NOAEC, inhalative, Rat, 31680 mg/m³, In vivo study, negativ
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, Rat, 31680 mg/m³, Study, negativ

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.

Substance
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
no adverse effect observed
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
No information available.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
No information available.

Aspiration hazard

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

General remarks

none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Ethyl acetate, CAS: 141-78-6
LC50, (96h), Pimephales promelas, 230 mg/l (IUCLID)
EC50, (48h), Daphnia magna, 717 mg/l (IUCLID)
EC50, (48h), Desmodesmus subspicatus, 3300 mg/l (IUCLID)
EC10, (16h), Pseudomonas putida, 2900 mg/l (IUCLID)
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LC50, (96h), Daphnia magna, < 10 mg/l
EL50, (72h), Pseudokirchneriella subcapitata, > 10 - 30 mg/l
NOEC, (21d), Daphnia magna, 0,17 mg/l
NOELR, (72h), Pseudokirchneriella subcapitata, > 10 mg/l
LL50, (96h), Oncorhynchus mykiss, > 13,4 mg/l
LOEC, (21d), Daphnia magna, 0,32 mg/l
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
EC50, (48h), Daphnia magna, 3 mg/l
EC50, (72h), Pseudokirchneriella subcapitata, 10 - 30 mg/l
NOEC, (21d), Daphnia magna, 0,17 mg/l
NOELR, (72h), Pseudokirchneriella subcapitata, 10 mg/l
LL50, (96h), Oncorhynchus mykiss, > 13,4 mg/l
Hydrocarbons, C9, aromatics
EL50, (72h), Pseudokirchneriella subcapitata, 2,6 - 2,9 mg/l (Lit.)
EL50, (48h), Daphnia magna, 3,2 mg/l (Lit.)
LL50, (96h), Oncorhynchus mykiss, 9,2 mg/l (Lit.)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
EL50, (48h), Daphnia magna, 3 mg/l
EL50, (72h), Pseudokirchneriella subcapitata, 30 - 100 mg/l
NOEC, (21d), Daphnia magna, 0,17 mg/l
LL50, (96h), Oncorhynchus mykiss, 11,4 mg/l
LOEC, (21d), Daphnia magna, 0,32 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential

Bioaccumulation is potentially possible.

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

Disposal in an incineration plant in accordance with the regulations of the local authorities.
For recycling, consult manufacturer.

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) 2 (D/E)
Inland navigation (ADN)	Coating solution
- Classification Code	F1
- Label	
Marine transport in accordance with IMDG	Coating solution (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)
- 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 (N)
Inland navigation (ADN)	3 (N)
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	II
Inland navigation (ADN)	II
Marine transport in accordance with IMDG	II
Air transport in accordance with IATA	II

14.5 Environmental hazards

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

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/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- 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)	51,1%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H335 May cause respiratory irritation.
H226 Flammable liquid and vapour.

H411 Toxic to aquatic life with long lasting effects.
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.
EUH066 Repeated exposure may cause skin dryness or cracking.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
H225 Highly flammable liquid and vapour.

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. 2: H225 Highly flammable liquid and vapour. (On basis of test data)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none

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