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

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

1.1. Product identifier

Trade name/designation:

RAVENOL WATERCRAFT Mineral 2-Takt

Article No.:

1153210

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

Use of the substance/mixture:

Lubricant

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Ravensberger Schmierstoffvertrieb GmbH

Jöllenbecker Str. 2

33824 Werther

Germany

Telephone: +49 5203 9719 0

Telefax: +49 5203 9719 40

E-mail: kontakt@ravenol.de

Website: www.ravenol.de

E-mail (competent person): technik@ravenol.de

* 1.4. Emergency telephone number

Abt. Technik (Produktsicherheit), 24h: +49 700 24 112 112 (Company ID: RAV) (outside USA/Canada)
011 49 700 24 112 112 (Company ID: RAV) (inside USA/Canada), +49 5203 9719 0 (Mo-Do 7.30 Uhr -
16.30 Uhr, Fr 7.30 Uhr - 13.15 Uhr) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

* 2.2. Label elements

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

Hazard statements: -

Supplemental hazard information

EUH208	Contains Mixture of dicalcium (bis(2-hydroxy-5-tetra-propenylphenylmethyl) methylamine) dihydroxide . May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Precautionary statements: -

* 2.3. Other hazards

Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64741-76-0 EC No.: 265-077-7 REACH No.: 01-2119486951-26	Distillates (petroleum), heavy hydrocracked Asp. Tox. 1 H304	5 - < 15 weight-%
EC No.: 420-470-4 REACH No.: 01-0000016710-77	Mixture of dicalcium (bis(2-hydroxy-5-tetra- propenyl phenyl methyl) methylamine) dihydroxide Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 Warning H315-H317-H319	0 - < 1 weight-%
CAS No.: 64742-94-5 REACH No.: 01-2119463588-24	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene Aquatic Chronic 2, Asp. Tox. 1, Carc. 2, STOT SE 3 Danger H304-H336-H351-H411	0 - < 0.05 weight-%
CAS No.: 91-20-3 EC No.: 202-049-5	naphthalene Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Carc. 2 Warning H302-H351-H410	0 - < 0.05 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. Consult a doctor immediately.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

No known symptoms to date.

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

Treat symptomatically. Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Carbon dioxide (CO2)

Extinguishing powder

alcohol resistant foam

Use water spray jet to protect personnel and to cool endangered containers.

Unsuitable extinguishing media:

Full water jet



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- * **5.2. Special hazards arising from the substance or mixture**
During heating or in case of fire, toxic gases is possible.
The formation of combustible vapours is possible at temperatures above: Flash point
- Hazardous combustion products:**
Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x),
During heating or in case of fire, toxic gases is possible.
- 5.3. Advice for firefighters**
In case of fire: Wear self-contained breathing apparatus. Protective clothing.
- 5.4. Additional information**
Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

- * **6.1. Personal precautions, protective equipment and emergency procedures**
- 6.1.1. For non-emergency personnel**
Personal precautions:
Use personal protection equipment. Special danger of slipping by leaking/spilling product.
Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.
Emergency procedures:
Remove persons to safety. Remove all sources of ignition. Provide adequate ventilation.
- 6.1.2. For emergency responders**
Personal protection equipment:
Use personal protection equipment.
- 6.2. Environmental precautions**
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- * **6.3. Methods and material for containment and cleaning up**
For containment:
Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids
Prevent spread over a wide area (e.g. by containment or oil barriers).
For cleaning up:
Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Other information:
Treat the recovered material as prescribed in the section on waste disposal.
- 6.4. Reference to other sections**
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8
- 6.5. Additional information**
Clear spills immediately. Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

- * **7.1. Precautions for safe handling**
Protective measures
Advices on safe handling:
Personal protection equipment: see section 8. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.
Fire prevent measures:
No special fire protection measures are necessary.



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Environmental precautions:

Shafts and sewers must be protected from entry of the product.

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product.

Keep/Store only in original container.

Hints on storage assembly:

not required

Storage class: 10 – Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Store in a cool dry place. Keep away from heat.

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene CAS No.: 64742-94-5	① 50 mg/m ³ ② 100 mg/m ³ ⑤ (C9-C14 Aromaten)
VLA (FR)	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene CAS No.: 64742-94-5	① 150 mg/m ³ ⑤ (hydrocarbures, benzène C9-C12)
NO	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene CAS No.: 64742-94-5	① 25 ppm (120 mg/m ³) ⑤ (White Spirit (aromatinnhold > 22 %))
CH	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene CAS No.: 64742-94-5	① 100 ppm (525 mg/m ³) ⑤ (Testbenzin, Aromatengehalt 10-30%, White Spirit)
MAK (AT)	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene CAS No.: 64742-94-5	① 20 mL/m ³ ② 40 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von mehr als 25 %)
MAK (AT)	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene CAS No.: 64742-94-5	① 70 mL/m ³ ② 140 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von 1 % bis 25 % und an Hexanen von weniger als 1 %)
WEL (GB)	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene CAS No.: 64742-94-5	① 500 mg/m ³ ⑤ (Aromatics)
SI	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene CAS No.: 64742-94-5	① 50 mg/m ³



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CH	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
BE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (53 mg/m ³) ② 15 ppm (80 mg/m ³) ⑤ (peut être absorbé par la peau)
CZ	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 9.4 ppm (50 mg/m ³) ② 18.8 ppm (100 mg/m ³)
PL	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 20 mg/m ³ ② 50 mg/m ³ ⑤ (może przenikać przez skórę do organizmu)
NO	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
IE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)
HTP (FI)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 1 ppm (5 mg/m ³) ② 2 ppm (10 mg/m ³)
LT	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ (Kancerogeninės)
SE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ③ 15 ppm (80 mg/m ³)
NPEL (SK)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (80 mg/m ³)
TRGS 900 (DE)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 0.4 ppm (2 mg/m ³) ② 1.6 ppm (8 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden)
DK	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 20 ppm (100 mg/m ³)
BG	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 75 mg/m ³
HR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
ES	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (53 mg/m ³) ② 15 ppm (80 mg/m ³) ⑤ (puede ser absorbido a través dérmica)
RO	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
EE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
LV	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
Alberta (CA)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³) ② 15 ppm (79 mg/m ³)



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BC (CA)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ⑤ (may be absorbed through the skin)
MY	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³)
IOELV (EU)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
VLA (FR)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
SI	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 50 mg/m ³ ⑤ (frakcija ki jo je mogoče vdihniti računati je treba z možnos tjo prodiranja skozi kožo)
TW	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³)
KR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)
IS	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
CN	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 75 mg/m ³ ⑤ (必须考虑到可能会经由皮肤吸收)
RU	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	③ 20 mg/m ³
HU	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³
GR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
NL	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 80 mg/m ³
MAK (AT)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
SI	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ② 10 ppm ⑤ (računati je treba z možnostjo prodiranja skozi kožo)
TR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
Québec (CA)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³) ② 15 ppm (79 mg/m ³)
OSHA (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
NIOSH (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
ACGIH (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³) ② 15 ppm (79 mg/m ³) ⑤ (may be absorbed through the skin)
TRGS 900 (DE)	Hydrocarbons, TRGS 900	① 0 mg/m ³ ⑤ Mass fraction (wt %): 0

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	8.7 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	104 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	52 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	104 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	3.3 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	40 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	20 mg/kg bw/day	① DNEL worker ② Long-term - dermal, local effects
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	20 mg/kg bw/day	① DNEL worker ② Acute - dermal, local effects
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	25 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	25 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	3.57 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	66 µg/l	① PNEC aquatic, freshwater
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	66 µg/l	① PNEC aquatic, marine water
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	20 µg/l	① PNEC sewage treatment plant
Mixture of dicalcium (bis(2-hydroxy-5-tetra- prop enyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	66 µg/l	① PNEC aquatic, intermittent release



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Substance name	PNEC Value	① PNEC type
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	2.4 µg/l	① PNEC aquatic, freshwater
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	2.4 µg/l	① PNEC aquatic, marine water
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	2.9 mg/l	① PNEC sewage treatment plant
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	20 µg/l	① PNEC aquatic, intermittent release

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment



Eye/face protection:

During transfer: Eye glasses with side protection
 Wear eye/face protection. DIN EN 166

Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber)

Thickness of the glove material: $\geq 0,4$ mm

Breakthrough time: 480 min

Breakthrough times and swelling properties of the material must be taken into consideration.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Tested protective gloves must be worn: EN ISO 374

Suitable protective clothing: Protective clothing

Respiratory protection:

Usually no personal respiratory protection necessary.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

Mineral oil mist limits:

OSHA PEL - value 5 mg / m³, ACGIH STEL - value of 10 mg / m³

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: blue

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			



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parameter		at °C	Method	Remark
Flash point	190 °C			
Evaporation rate	not determined			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	880 kg/m ³	15 °C		
Bulk density	not determined			
Water solubility	not determined			
Partition coefficient: n-octanol/water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	69 mm ² /s	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions. Risk of explosion if heated under confinement.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

10.5. Incompatible materials

Materials to avoid: Acid, Oxidising agent, Reducing agent

10.6. Hazardous decomposition products

Hazardous combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

* 11.1. Information on toxicological effects

Substance name	Toxicological information
Distillates (petroleum), heavy hydrocracked CAS No.: 64741-76-0 EC No.: 265-077-7	LD₅₀ oral: 5,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rab) LC₅₀ Acute inhalation toxicity (gas): 5,000 mg/m ³ (Rat)
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	LD₅₀ oral: >533 mg/kg (Mouse) LC₅₀ Acute inhalation toxicity (dust/mist): >0.4 mg/l 4 h (Rat) LD₅₀ dermal: >16,000 mg/kg (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

No information available for acute dermal and inhalative toxicity.

Acute inhalation toxicity:

No information available for acute dermal and inhalative toxicity.

Skin corrosion/irritation:

No irritant effect.



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Serious eye damage/irritation:

No irritant effect.

Respiratory or skin sensitisation:

Contains Mixture of dicalcium (bis(2-hydroxy-5-tetra-propenylphenylmethyl) methylamine) dihydroxide

. May produce an allergic reaction.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

No indication of human carcinogenicity.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

Observe risk of aspiration if vomiting occurs.

Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

SECTION 12: Ecological information

*** 12.1. Toxicity**

Substance name	Toxicological information
Distillates (petroleum), heavy hydrocracked CAS No.: 64741-76-0 EC No.: 265-077-7	LC₅₀ : 100 mg/l 4 d (fish) NOEC : 100 mg/l -∞ h (fish) EC₅₀ : 10,000 mg/l 2 d (crustaceans) NOEC : 100 mg/l -∞ h (crustaceans) NOEC : 100 mg/l -∞ h (Algae/water plant) IC₅₀ : 100 mg/l 3 d (Algae/water plant)
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	LC₅₀ : >1.2 - <2.1 mg/l 4 d (fish) EC₅₀ : >2.16 mg/l 2 d (crustaceans) EC₅₀ : >2.96 mg/l 4 d (Algae/water plant)

Assessment/classification:

The product has not been tested.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

*** 12.2. Persistence and degradability**

Substance name	Biodegradation	Remark
Distillates (petroleum), heavy hydrocracked CAS No.: 64741-76-0 EC No.: 265-077-7	Yes, slowly	

Biodegradation:

Not readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

Substance name	Log K _{OW}	Bioconcentration factor (BCF)
Distillates (petroleum), heavy hydrocracked CAS No.: 64741-76-0 EC No.: 265-077-7	6	
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	3.7	168

Accumulation / Evaluation:

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.



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* **12.5. Results of PBT and vPvB assessment**

Substance name	Results of PBT and vPvB assessment
Distillates (petroleum), heavy hydrocracked CAS No.: 64741-76-0 EC No.: 265-077-7	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
Mixture of dicalcium (bis(2-hydroxy-5-tetra-propenyl phenyl methyl) methylamine) dihydroxide EC No.: 420-470-4	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

* **13.1. Waste treatment methods**

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

* **13.2. Additional information**

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

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

* **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Safety data sheet available on request.

15.1.2. National regulations

[DE] National regulations

Störfallverordnung

for substances contained in the product:

This product is not assigned to a hazard category.

Technische Anleitung Luft (TA-Luft)

Remark:

To follow: 5.2.5

Water hazard class

WGK:

2 - deutlich wassergefährdend

Source:

Self-classification (mixture; calculation rule).

Identification number 436

Technische Regeln für Gefahrstoffe

TRGS 510

TRGS 500

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868

Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195

Other regulations, restrictions and prohibition regulations

Altöl-Verordnung (AltöIV)

[DK] National regulations

Other regulations, restrictions and prohibition regulations

Lister over stoffer og processer, der anses for at være kræftfremkaldende

[FR] National regulations

Other regulations, restrictions and prohibition regulations

Tableaux de maladies professionnelles

Nomenclature des installations classées pour la protection de l'environnement

[NL] National regulations

Other regulations, restrictions and prohibition regulations

Lijst van kankerverwekkende, mutagene, en voor de voortplanting giftige stoffen SZW

Algemeene beoordelingsmethodiek Water (ABM)

Nederlandse emissierichtlijn (NeR)

[CH] National regulations

Other regulations, restrictions and prohibition regulations

Mengenschwelle (Schweiz - StFV)

Gefahrencode

Brandverhütung, BVD (Schweiz)

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



SECTION 16: Other information

* 16.1. Indication of changes

1.4.	Emergency telephone number
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
5.2.	Special hazards arising from the substance or mixture
6.1.	Personal precautions, protective equipment and emergency procedures
6.3.	Methods and material for containment and cleaning up
7.1.	Precautions for safe handling
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
11.1.	Information on toxicological effects
12.1.	Toxicity
12.2.	Persistence and degradability
12.5.	Results of PBT and vPvB assessment
13.1.	Waste treatment methods
13.2.	Additional information
14.1.	UN number
14.2.	UN proper shipping name
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

16.2. Abbreviations and acronyms

See overview table at www.euphrac.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data

67/548/EEC - Dangerous Substances Directive 1999/45/EEC - Dangerous Preparations Directive EC 1907/2006 - REACH Regulation 1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006 Regulation (EC) No 1907/2006 (REACH), Annex II European Chemicals Agency (ECHA), C & L classification and labeling inventory European Chemicals Agency (ECHA), ECHA CHEM Registered substances OECD The Global Portal to Information on Chemical Substances (ChemPortal) Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

* 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
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.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.



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16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

* Data changed compared with the previous version