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 Carnauba-Wachs

Other means of identification:

RAVENOL Carnauba-Wax

Article No.:

1360752

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

Use of the substance/mixture:

care product

1.3. Details of the supplier of the safety data sheet

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

Ravensberger Schmierstoffvertrieb GmbH
Produktsicherheit
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): sdb@ravenol.de

1.4. Emergency telephone number

24 hr. emergency phone number, 24h: +1 872 5888271 (Contract ID: RAV)

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: none

Supplemental hazard information	
EUH210	Safety data sheet available on request.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Additional information:

Regulation (EC) No. 648/2004 [Detergents regulation]: aliphatic hydrocarbons: 15 - 30 %, non-ionic surfactants non-ionic surfactants: < 5 %, Fragrances, Preservative (2-phenoxyethanol, BUTYLBENZISOTHIAZOLINONE, LAURYLAMINE DIPROPYLENEDIAMINE): < 5 %

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-48-9 EC No.: 918-481-9 REACH No.: 01-2119457273-39	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** Asp. Tox. 1 (H304) Danger EUH066 **Acute Toxicity Estimate** ATE (oral) > 5,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, vapour) > 5 mg/L ATE (inhalation, dust/mist) > 5.266 mg/L	5 – < 15 weight-%
CAS No.: 64742-47-8 EC No.: 926-141-6 Index No.: 649-422-00-2 REACH No.: 01-2119456620-43	**Aliphatic hydrocarbons** Asp. Tox. 1 (H304) Danger **Acute Toxicity Estimate** ATE (oral) > 15,000 mg/kg	1 – < 5 weight-%
CAS No.: 4299-07-4 EC No.: 420-590-7 Index No.: 606-079-00-3 REACH No.: 01-0000016721-74	**2-n-butyl-benzo[d]isothiazol-3-one** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1B (H314), Skin Sens. 1 (H317) Danger M-factor (acute): 10 M-factor (chronic): 10	< 0.1 weight-%
CAS No.: 2372-82-9 EC No.: 219-145-8 REACH No.: 01-2119980592-29	**N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine** Acute Tox. 3 (H301), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), STOT RE 2 (H373), Skin Corr. 1B (H314) Danger M-factor (acute): 10 M-factor (chronic): 1 **Acute Toxicity Estimate** ATE (oral) 243.6 mg/kg ATE (dermal) > 600 mg/kg	< 0.1 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:
No special measures are necessary.

In case of skin contact:
No special measures are necessary.

After eye contact:
Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:
Do NOT induce vomiting. If major quantity of dust is swallowed or inhaled, immediately drink: Water, to which activated charcoal may be added
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Self-protection of the first aider:
Use personal protection equipment.

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

Na-sulphate/activated carbon in water.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

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:

Special danger of slipping by leaking/spilling product.

Protective equipment:

Personal protection equipment: see section 8

Emergency procedures:

Remove persons to safety. Provide adequate ventilation.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Product may not be released into water without pre-treatment (biological sewage plant).Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Take up mechanically.

For cleaning up:

Small amounts of spillages: Dilute with plenty of water.
Large amounts of spillages: Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

No special measures are necessary. Wash hands before breaks and after work.

Fire prevent measures:

Usual measures for fire prevention.

Environmental precautions:

Observe laws and regulations regarding the storage and use of water-polluting substances

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.
When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

No special measures are necessary.

Packaging materials:

Keep/Store only in original container.

Hints on storage assembly:
No special measures are necessary.
Storage class (TRGS 510, Germany): 12 – non-combustible liquids that cannot be assigned to any of the above storage classes
Further information on storage conditions:
Recommended storage temperature: 0 °C < 30 °C

7.3. Specific end use(s)

Recommendation:
Vehicle (all types) cleaning and care products

SECTION 8: Exposure controls/personal protection

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
PL	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 300 mg/m³ ② 900 mg/m³
VLA (FR)	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 1,000 mg/m³ ② 1,500 mg/m³ ⑤ (hydrocarbures, vapeur C6-C12)
NO	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 50 ppm (275 mg/m³) ⑤ (White Spirit (aromatinnhold < 22 %))
CH from 1 Jan 2024	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 50 ppm (300 mg/m³) ② 100 ppm (600 mg/m³)
CH from 1 Jan 2024	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 500 ppm (2,000 mg/m³) ⑤ Messmeth: OSHA
MAK (AT)	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 200 mL/m³ ② 400 mL/m³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von weniger als 25 %)
MAK (AT)	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 170 mL/m³ ② 340 mL/m³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von 25 % oder mehr)
WEL (GB)	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 1,200 mg/m³ ⑤ (alkanes >= C7)
WEL (GB)	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 800 mg/m³ ⑤ (> or = C7, Cycloalkanes)
SI from 4 Dec 2018	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 700 mg/m³

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
RO from 21 Aug 2018	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9	① 700 mg/m³ ② 1,000 mg/m³
TRGS 900 (DE) from 30 Nov 2017	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 300 mg/m³ ② 600 mg/m³ ⑤ (Kohlenwasserstoffe, aliphatisch, C9-C14)
VLA (FR)	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 1,000 mg/m³ ② 1,500 mg/m³ ⑤ (hydrocarbures, vapeur C6-C12)
NO	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 50 ppm (275 mg/m³) ⑤ (White Spirit (aromatinnhold < 22 %))
DFG (DE) from 1 Jul 2015	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 5 mg/m³ ② 20 mg/m³ ⑤ (Aerosol, alveolengängige Fraktion)
MAK (AT)	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 200 mL/m³ ② 400 mL/m³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von weniger als 25 %)
MAK (AT)	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 170 mL/m³ ② 340 mL/m³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von 25 % oder mehr)
WEL (GB)	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 1,200 mg/m³ ⑤ (alkanes >= C7)
WEL (GB)	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 800 mg/m³ ⑤ (> or = C7, Cycloalkanes)
RU	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 100 mg/m³ ③ 300 mg/m³
CH from 1 Jan 2024	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 50 ppm (350 mg/m³) ② 100 ppm (700 mg/m³) ⑤ (Dampf) SSC
SI from 4 Dec 2018	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 700 mg/m³
RO from 21 Aug 2018	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 700 mg/m³ ② 1,000 mg/m³
CH from 1 Jan 2024	**Aliphatic hydrocarbons** CAS No.: 64742-47-8 EC No.: 926-141-6	① 5 mg/m³ ⑤ (Aerosol; einatembare Fraktion) SSC
TRGS 900 (DE) from 2 May 2018	**2-phenoxyethanol** CAS No.: 122-99-6 EC No.: 204-589-7	① 1 ppm (5.7 mg/m³) ② 1 ppm (5.7 mg/m³) ⑤ (Aerosol und Dampf) DFG, Y, 11
PL	**2-phenoxyethanol** CAS No.: 122-99-6 EC No.: 204-589-7	① 230 mg/m³

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
HTP (FI)	**2-phenoxyethanol** CAS No.: 122-99-6 EC No.: 204-589-7	① 20 ppm (110 mg/m³) ② 50 ppm (290 mg/m³) ⑤ (voivat imeytyä ihon läpi) iho
Ontario (CA)	**2-phenoxyethanol** CAS No.: 122-99-6 EC No.: 204-589-7	① 25 ppm (141 mg/m³) ⑤ (may be absorbed through the skin) Skin
SI from 4 Dec 2018	**2-phenoxyethanol** CAS No.: 122-99-6 EC No.: 204-589-7	① 1 ppm (5.7 mg/m³) ② 1 ppm (5.7 mg/m³) ⑤ Y
RU	**2-phenoxyethanol** CAS No.: 122-99-6 EC No.: 204-589-7	③ 2 mg/m³
MAK (AT) from 25 Sept 2018	**2-phenoxyethanol** CAS No.: 122-99-6 EC No.: 204-589-7	① 20 ppm (110 mg/m³) ② 20 ppm (110 mg/m³) ⑤ (Momentanwert)
CH from 1 Jan 2024	**2-phenoxyethanol** CAS No.: 122-99-6 EC No.: 204-589-7	① 20 ppm (110 mg/m³) ② 20 ppm (110 mg/m³) ⑤ (Dampf und Aerosol) SSC; Messmeth: BIA
CH from 1 Jan 2024	**N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine** CAS No.: 2372-82-9 EC No.: 219-145-8	① 0.05 mg/m³ ② 0.4 mg/m³ ⑤ (einatembare Fraktion) SSC
TRGS 900 (DE) from 7 Jun 2018	**N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine** CAS No.: 2372-82-9 EC No.: 219-145-8	① 0.05 mg/m³ ② 0.4 mg/m³ ⑤ (einatembare Fraktion) DFG, Y
SI from 11 May 2021	**N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine** CAS No.: 2372-82-9 EC No.: 219-145-8	① 0.05 mg/m³ ② 0.4 mg/m³ ⑤ (frakcija ki jo je mogoče vdihniti) Y
RU	**N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine** CAS No.: 2372-82-9 EC No.: 219-145-8	③ 1 mg/m³ ⑤ A
TRGS 900 (DE)	**Hydrocarbons, TRGS 900**	① 300 mg/m³ ⑤ Mass fraction (wt %): 14.9999

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
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	8.07 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	8.07 mg/m³	① DNEL worker ② Long-term – inhalation, local effects

Substance name	DNEL value	① DNEL type ② Exposure route
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	20.83 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	0.943 mg/L	① PNEC aquatic, freshwater
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	0.094 mg/L	① PNEC aquatic, marine water
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	24.8 mg/L	① PNEC sewage treatment plant
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	7.237 mg/kg bw/day	① PNEC sediment, freshwater
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	0.724 mg/kg bw/day	① PNEC sediment, marine water
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	1.26 mg/kg bw/day	① PNEC soil
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	3.44 mg/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:

Eye protection: not required.

Skin protection:

Hand protection is not required.
Body protection: not required

Respiratory protection:

Usually no personal respirative protection necessary.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Form: viscous
Colour: hell grün
Odour: fruchtig
flammability: No

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	6 – 8	20 °C	
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	100 – 220 °C		
Decomposition temperature	*not applicable*		
Flash point	*not applicable*		
Evaporation rate	*No data available*		

Parameter	Value	at °C	① Method ② Remark
Auto-ignition temperature	240 °C		
Upper/lower flammability or explosive limits	*No data available*		
Vapour pressure	≈ 24 hPa	20 °C	
Vapour density	*not applicable*		
Density	0.96 g/cm³	20 °C	
Relative density	*not applicable*		
Bulk density	*not applicable*		
Water solubility	partially miscible		
Partition coefficient: n-octanol/water	*not applicable*		
Dynamic viscosity	4,000 – 6,000 mPa* s	20 °C	
Kinematic viscosity	> 20.5 mm²/s	40 °C	
Solvent content	15 %		

9.2. Other information
aliphatic hydrocarbons: Boiling point or initial boiling point and boiling range 180 - 220 °C
Not sustaining combustion.

SECTION 10: Stability and reactivity

10.1. Reactivity
The product itself does not burn.

10.2. Chemical stability
The product 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
Stable under recommended storage and handling conditions.

10.5. Incompatible materials
Further information on proper storage: see section 7.

10.6. Hazardous decomposition products
In case of fire: Gases/vapours, toxic

SECTION 11: Toxicological information

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

Toxicological information

Acute Toxicity Estimate for Mixtures
ATE (inhalation, vapour): >20 mg/L
ATE (inhalation, dust/mist): >5 mg/L
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
LD_{50} oral: >5,000 mg/kg (Rat)
LD_{50} dermal: >5,000 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (vapour): >5 mg/L 4 h (Rat)
LC_{50} Acute inhalation toxicity (dust/mist): >5.266 mg/L 4 h (rat) OECD Guideline 403 (Acute Inhalation Toxicity)
Aliphatic hydrocarbons CAS No.: 64742-47-8 EC No.: 926-141-6
LD_{50} oral: >15,000 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine CAS No.: 2372-82-9 EC No.: 219-145-8
LD_{50} oral: 243.6 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
LD_{50} dermal: >600 mg/kg (rat) EU Method B.3 (Acute Toxicity (Dermal))

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

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

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

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

11.2. Information on other hazards

Endocrine disrupting properties:
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
LC_{50}: >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
ErC_{50}: >1,000 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata)
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine CAS No.: 2372-82-9 EC No.: 219-145-8
LC_{50}: 0.431 mg/L 4 d (fish, Danio rerio (previous name: Brachydanio rerio))
EC_{50}: 0.012 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))
EC_{50}: 0.077 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 0.007 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))
NOEC: 0.18 mg/L 4 d (fish, Danio rerio (previous name: Brachydanio rerio))
NOEC: 0.04 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 0.024 mg/L 21 d (crustaceans, Daphnia magna)
ErC_{50}: 0.015 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
LOEC: 0.01 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
LOEC: 0.066 mg/L 21 d (crustaceans, Daphnia magna)

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

Additional ecotoxicological information:
Do not allow uncontrolled discharge of product into the environment.

12.2. Persistence and degradability

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
Biodegradation: Yes, rapidly

Biodegradation:
The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

Aliphatic hydrocarbons CAS No.: 64742-47-8 EC No.: 926-141-6	
Log K_{OW}: ≤ 7.71	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine CAS No.: 2372-82-9 EC No.: 219-145-8	
Log K_{OW}: 0.66	

Partition coefficient: n-octanol/water:
not applicable

Accumulation / Evaluation:
No indication of bioaccumulation potential.

12.4. Mobility in soil
There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Aliphatic hydrocarbons CAS No.: 64742-47-8 EC No.: 926-141-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2-n-butyl-benzo[d]isothiazol-3-one CAS No.: 4299-07-4 EC No.: 420-590-7
Results of PBT and vPvB assessment: —
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine CAS No.: 2372-82-9 EC No.: 219-145-8
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20

Waste code packaging

15 01 02	Plastic packaging

Waste treatment options

Appropriate disposal / Product:
Dispose of waste according to applicable legislation.

Appropriate disposal / Package:
Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Other disposal recommendations:
Consult the appropriate local waste disposal expert about waste disposal.

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

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
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	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments
not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:
entry 28, entry 75

Other regulations (EU):
This product is not assigned to a hazard category.
Maximum VOC content of the product in a ready to use condition: 14,4 g/L

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:
Volatile organic compounds (VOC) content in percent by weight: 15 weight-%

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImschV)

for substances contained in the product:
This product is not assigned to a hazard category.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Remark:
To follow: 5.2.5

Water hazard class

WGK:
1 - slightly hazardous to water

Source:
Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe
TRGS 500
TRGS 510
TRGS 900

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)
DGUV Information 212-007- Chemical protection gloves
Occupational Accident Insurance Rules (BGR) DGUV Rule 112-189, 112-190, 112-192, 112-195

15.2. Chemical Safety Assessment
For the following substances of this mixture a chemical safety assessment has been carried out:
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics, aliphatic hydrocarbons, 2-phenoxyethanol, 2-n-butyl-benzo[d]isothiazol-3-one, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

SECTION 16: Other information

16.1. Indication of changes

not relevant

16.2. Abbreviations and acronyms

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
GLP	Good Laboratory Practice
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
See overview table at www.euphrac.eu

16.3. Key literature references and sources for data

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)

Substance name	Type	source of supply
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	LC_{50} Acute inhalation toxicity (dust/mist)	Source: European Chemicals Agency, http://echa.europa.eu/
Aliphatic hydrocarbons CAS No.: 64742-47-8 EC No.: 926-141-6	LD_{50} oral	Source: European Chemicals Agency, http://echa.europa.eu/
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine CAS No.: 2372-82-9 EC No.: 219-145-8	LD_{50} oral; LD_{50} dermal; LC_{50}; EC_{50}; NOEC; ErC_{50}; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method 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. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

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.

GeSi.de