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 Auto Lederpflege

Other means of identification:
RAVENOL Leather Car Care

Article No.:
1360755

UFI:
EE59-QVEH-SY84-V95U

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

Use of the substance/mixture:
Leather – cleaning and care products

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]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

2.2. Label elements

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

Hazard pictograms:



GHS09
Environment

Hazard components for labelling:
2-n-butyl-benzo[d]isothiazol-3-one; Amines, C16-18-alkyl; N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

Hazard statements for environmental hazards	
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH208	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements Prevention	
P273	Avoid release to the environment.

Precautionary statements Response	
P391	Collect spillage.

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

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]: 5 % - 15 % non-ionic surfactants, Fragrances, Preservative (2-phenoxyethanol, LAURYLAMINE DIPROPYLENEDIAMINE, sodium (1-oxo-1lambda5-pyridin-2-yl)sulfanide, BENZISOTHIAZOLINONE, BUTYLBENZISOTHIAZOLINONE)

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 69227-20-9	**Alkylol ethoxylate (C16-22)** Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Warning	1 – < 5 weight-%
CAS No.: 90640-32-7 EC No.: 292-550-5 REACH No.: 01-2119473799-15	**Amines, C16-18-alkyl** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Eye Dam. 1 (H318), STOT RE 2 (H373), Skin Irrit. 2 (H315) Danger M-factor (acute): 10 M-factor (chronic): 10 **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	0.1 – < 1 weight-%
CAS No.: 122-99-6 EC No.: 204-589-7 Index No.: 603-098-00-9 REACH No.: 01-2119488943-21	**2-phenoxyethanol** Acute Tox. 4 (H302), Eye Dam. 1 (H318), STOT SE 3 (H335) Danger **Acute Toxicity Estimate** ATE (oral) 1,394 mg/kg ATE (dermal) 14,422 mg/kg ATE (inhalation, dust/mist) > 1 mg/L	0.1 – < 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 – < 1 weight-%

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 3811-73-2 EC No.: 223-296-5 REACH No.: 01-2119493385-28	**pyridine-2-thiol 1-oxide, sodium salt** Acute Tox. 4 (H332, H312, H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315)  Warning **Acute Toxicity Estimate** ATE (oral) 1,208 mg/kg ATE (dermal) 2,000 mg/kg ATE (inhalation, vapour) 11 mg/L ATE (inhalation, dust/mist) 1.5 mg/L	< 0.1 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.: 2634-33-5 EC No.: 220-120-9 Index No.: 613-088-00-6 REACH No.: 01-2120761540-60	**1,2-benzisothiazol-3(2H)-one** Acute Tox. 2 (H330), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1A (H317)  Danger M-factor (acute): 1 M-factor (chronic): 1 **Specific concentration limit (SCL)** Skin Sens. 1; H317: C ≥ 0.036% **Acute Toxicity Estimate** ATE (oral) 450 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) 0.21 mg/L	< 0.005 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.
Avoid contact with skin, eyes and clothes.

Following inhalation:
Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

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:
Do NOT induce vomiting. Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

IF SWALLOWED: Administer defoamer.

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
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For containment:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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:
Avoid contact with skin, eyes and clothes. Keep container tightly closed.

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. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:
Keep/Store only in original container.

Requirements for storage rooms and vessels:
Ensure adequate ventilation of the storage area.

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: < 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
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
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

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
MAK (AT)	**pyridine-2-thiol 1-oxide, sodium salt** CAS No.: 3811-73-2 EC No.: 223-296-5	① 1 mg/m³ ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	**pyridine-2-thiol 1-oxide, sodium salt** CAS No.: 3811-73-2 EC No.: 223-296-5	② 4 mg/m³ ⑤ (max. 4x15 min./Schicht, kann über die Haut aufgenommen werden) H
DK from 13 Feb 2021	**pyridine-2-thiol 1-oxide, sodium salt** CAS No.: 3811-73-2 EC No.: 223-296-5	① 1 mg/m³ ② 2 mg/m³ ⑤ (kan optages gennem huden) H
SI from 4 Dec 2018	**pyridine-2-thiol 1-oxide, sodium salt** CAS No.: 3811-73-2 EC No.: 223-296-5	① 1 mg/m³ ② 2 mg/m³ ⑤ (računati je treba z možnostjo prodiranja skozi kožo, frakcija ki jo je mogoče vdihniti) K
TRGS 900 (DE) from 29 Mar 2019	**pyridine-2-thiol 1-oxide, sodium salt** CAS No.: 3811-73-2 EC No.: 223-296-5	① 0.2 mg/m³ ② 0.4 mg/m³ ⑤ (einatembare Fraktion; kann über die Haut aufgenommen werden) DFG, H, Y
CH from 1 Jan 2024	**pyridine-2-thiol 1-oxide, sodium salt** CAS No.: 3811-73-2 EC No.: 223-296-5	① 0.2 mg/m³ ② 0.4 mg/m³ ⑤ (einatembare Fraktion; kann über die Haut aufgenommen werden) H SSC

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
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

Substance name	PNEC Value	① PNEC type
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 glasses with side protection
EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374
Suitable material: PVC (polyvinyl chloride), Butyl caoutchouc (butyl rubber), CR (polychloroprene, chloroprene rubber)
Breakthrough time: 480 min
Thickness of the glove material: 0,5 mm
Suitable material: NBR (Nitrile rubber)
Breakthrough time: 480 min
Thickness of the glove material: 0,35 mm
Tested protective gloves must be worn EN ISO 374
Suitable material: FKM (fluoro rubber)
Breakthrough time: 480 min
Thickness of the glove material: 0,4 mm
In the case of wanting to use the gloves again, clean them before taking off and air them well.
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.

Normally, no special protective clothing is 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: Liquid
Colour: cream
Odour: product-specific
flammability: No

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	8 – 8.5	20 °C	
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	100 °C		
Decomposition temperature	*not applicable*		
Flash point	*not applicable*		
Evaporation rate	*not applicable*		
Auto-ignition temperature	*No data available*		
Upper/lower flammability or explosive limits	*not applicable*		
Vapour pressure	≈ 23 hPa	20 °C	

Parameter	Value	at °C	① Method ② Remark
Vapour density	*not applicable*		
Density	0.99 g/cm³	20 °C	
Relative density	*not applicable*		
Bulk density	*not applicable*		
Water solubility	completely miscible		
Partition coefficient: n-octanol/water	*not applicable*		
Dynamic viscosity	800 – 1,500 mPa* s	20 °C	
Kinematic viscosity	*No data available*		

9.2. Other information
Not applicable

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
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

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

Amines, C16-18-alkyl CAS No.: 90640-32-7 EC No.: 292-550-5
LD_{50} oral: >2,000 mg/kg (rat)
LD_{50} dermal: >2,000 mg/kg (rat) OECD Guideline 402 (Acute Dermal 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

Amines, C16-18-alkyl CAS No.: 90640-32-7 EC No.: 292-550-5
LC_{50}: 0.03 mg/L 4 d (fish)
EC_{50}: 0.03 mg/L 2 d (crustaceans)
EC_{50}: 0.12 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) OECD Guideline 201 (Alga, Growth Inhibition Test)
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:
Toxic to aquatic life with long lasting effects.

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

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Amines, C16-18-alkyl CAS No.: 90640-32-7 EC No.: 292-550-5
Log K_{OW}: 9.16
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

The product has not been tested.

12.5. Results of PBT and vPvB assessment

Alkylol ethoxylate (C16-22) CAS No.: 69227-20-9
Results of PBT and vPvB assessment: —

Amines, C16-18-alkyl CAS No.: 90640-32-7 EC No.: 292-550-5	
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
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.	
2-n-butyl-benzo[d]isothiazol-3-one CAS No.: 4299-07-4 EC No.: 420-590-7	
Results of PBT and vPvB assessment: —	

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

20 01 30	detergents other than those mentioned in 20 01 29

Directive 2008/98/EC (Waste Framework Directive)

HP 14	Ecotoxic

Waste code packaging

15 01 10 *	packaging containing residues of or contaminated by dangerous substances

**: Evidence for disposal must be provided.*

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

Appropriate disposal / Package:
Handle contaminated packages in the same way as the substance itself.

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			
UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amines, C16-18-alkyl, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amines, C16-18-alkyl, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amines, C16-18-alkyl, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amines, C16-18-alkyl, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)
14.3. Transport hazard class(es)			
 9	 9	 9	 9
14.4. Packing group			
III	III	III	III

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special Provisions: 274 | 335 | 375 | 601 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Hazard identification number (Kemler No.):** 90 **Classification code:** M6 **Tunnel restriction code:** (-) **Remark:** SV 375 Inner packaging and individual packaging containing a net quantity of no more than 5 L of liquid substances or a net mass of no more than 5 kg of solid substances are not subject to the other provisions of ADR/RID/ ADN. The packaging must comply with the provisions of subsections 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 ADR/RID/ADN.	**Special Provisions:** 274 | 335 | 375 | 601 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Classification code:** M6 **Remark:** SV 375 Inner packaging and individual packaging containing a net quantity of no more than 5 L of liquid substances or a net mass of no more than 5 kg of solid substances are not subject to the other provisions of ADR/RID/ ADN. The packaging must comply with the provisions of subsections 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 ADR/RID/ADN.	**Special Provisions:** 274 | 335 | 375 | 969 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **EmS-No.:** F-A, S-F **Remark:** Special provision 375: In the case of quantities of up to 5 L (UN 3082) or up to 5 kg (UN 3077) per inner or individual packaging, this hazardous material is subject to the general packing regulations 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1 .1.8 ADR / RID / ADN not subject to transport regulations. Special provision 375 of the IMDG Code: This dangerous goods is subject to compliance with regulations in quantities of up to 5 L (UN 3082) or up to 5 kg (UN 3077) per inner or individual packaging Of the general packing regulations 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 ADR / RID / ADN do not comply with transport regulations. A917 IATA-DGR: not restricted as per special provision A197 (in quantities of up to 5 L (UN 3082) or up to 5 kg (UN 3077) per inner or individual packaging).	**Remark:** A197: Inner packagings and single packagings containing a net quantity of 5 L or less of liquids or a net mass of 5 kg or less of solids are not subject to the other provisions of this regulation. The packagings shall conform to the requirements of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.7. Maritime transport in bulk according to IMO instruments

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

Restrictions on use:

entry 3, entry 55, entry 75

Other regulations (EU):

This product is not assigned to a hazard category.

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe employment restrictions according to the Act on the Protection of Mothers at Work, in Training and in Studies (Maternity Protection Act - MuSchG). Observe employment restrictions according to the Law for the protection of working youth (Protection of Young Persons Act - JArbSchG).

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:

3 - highly 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:
Amines, C16-18-alkyl, 2-phenoxyethanol, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, 1,2-benzisothiazol-3(2H)-one, 2-n-butyl-benzo[d]isothiazol-3-one

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
Amines, C16-18-alkyl CAS No.: 90640-32-7 EC No.: 292-550-5	LD_{50} oral; LD_{50} dermal; EC_{50}	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]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.

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.