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 Premium Wash and Seal

Article No.:
1360753

UFI:
E3PX-GKGJ-D19P-4TWK

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

Use of the substance/mixture:
Cleaning agent

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
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	Calculation method.

2.2. Label elements

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

Hazard pictograms:



GHS05
Corrosion

Signal word: Danger

Hazard components for labelling:
Isotridecanol, ethoxylated (>5-20 EO); Siloxanes and silicones, {3-[(2-Aminoethyl)amino]propyl}methyl-, Dimethyl; 1-Propanaminium, 2-Hydroxy-N-(2-hydroxypropyl)-N, N-dimethyl-, esters with fatty acids, C18; 2-phenoxyethanol

Hazard statements for health hazards	
H315	Causes skin irritation.
H318	Causes serious eye damage.

Supplemental hazard information: none

Precautionary statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Precautionary statements Prevention	
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and eye protection/face protection.

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water/Soap.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/Emergency telephone number.

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]: non-ionic surfactants: 5 - < 15 %, cationic surfactants: < 5 %, Fragrance citral, Preservative (2-phenoxyethanol, BUTYLBENZISOTHIAZOLINONE, LAURYLAMINE DIPROPYLENEDIAMINE)
The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 69011-36-5	**Isotridecanol, ethoxylated (>5-20 EO)** Acute Tox. 4 (H302), Eye Dam. 1 (H318) Danger **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	5 – < 15 weight-%
CAS No.: 102782-92-3	**Siloxanes and silicones, {3-[(2-Aminoethyl)amino]propyl}methyl-, Dimethyl** Eye Dam. 1 (H318), Skin Corr. 1B (H314) Danger	1 – < 5 weight-%
CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH No.: 01-2119475104-44	**2-(2-butoxyethoxy)ethanol** Eye Irrit. 2 (H319) Warning **Acute Toxicity Estimate** ATE (oral) 5,660 mg/kg ATE (dermal) 4,000 mg/kg	1 – < 5 weight-%
CAS No.: 1474044-71-7 EC No.: 939-685-4 REACH No.: 01-2119983493-26	**1-Propanaminium, 2-Hydroxy-N-(2-hydroxypropyl)-N, N-dimethyl-, esters with fatty acids, C18** Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Irrit. 2 (H315) Danger **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	1 – < 5 weight-%

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 5131-66-8 EC No.: 225-878-4 Index No.: 603-052-00-8 REACH No.: 01-2119475527-28	**1-butoxypropan-2-ol** Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Warning **Acute Toxicity Estimate** ATE (oral) 3,300 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 651 mg/L	1 – < 5 weight-%
CAS No.: 85536-23-8 EC No.: 932-164-2 REACH No.: 01-2119565130-50	**Fatty acid monoethanolamide polyethylene glycol ether** Aquatic Chronic 3 (H412), Skin Irrit. 2 (H315) Warning **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg	1 – < 5 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.: 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:
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

Causes serious eye damage. Causes skin irritation.

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

Treat symptomatically.

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:

Avoid: Eye contact

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
BE	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
CZ from 1 Jan 2024	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³) ⑤ I
NO	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (68 mg/m³) ⑤ E
IE from 17 Jan 2020	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³) ⑤ IOELV
HTP (FI)	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (68 mg/m³)
DK from 28 Jun 2022	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (68 mg/m³) ② 15 ppm (101 mg/m³) ⑤ E
LT from 21 Aug 2018	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³) ⑤
SE from 1 Jun 2016	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (68 mg/m³) ② 15 ppm (101 mg/m³)
NPEL (SK) from 23 Nov 2011	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
WEL (GB)	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
VRI (FR) from 3 May 2021	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 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
MAK (AT) from 11 Sept 2007	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	② 15 ppm (101.2 mg/m³) ⑤ (max. 4x15 min./Schicht)
TRGS 900 (DE) from 1 Mar 2011	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67 mg/m³) ② 15 ppm (100.5 mg/m³) ⑤ (Aerosol und Dampf) EU, DFG, Y, 11
HU from 1 Apr 2024	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³) ⑤ T
BG from 6 Jan 2012	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
HR	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
EE	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³)
ES	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³) ⑤ VLI, r
LV	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
RO from 21 Aug 2018	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
IOELV (EU)	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
SI from 4 Dec 2018	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³) ⑤ Y, EU2
IS	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
CH from 1 Jan 2024	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67 mg/m³) ② 15 ppm (101 mg/m³) ⑤ (Dampf und Aerosol) SSC
MAK (AT) from 11 Sept 2007	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³)
GR from 1 Oct 2016	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
NL from 1 Jan 2023	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 7.4 ppm (50 mg/m³) ② 14.8 ppm (100 mg/m³) ⑤ (kan door de huid in het lichaam worden opgenomen) H
ACGIH (US) from 1 Jan 2013	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ⑤ (inhalable fraction and vapor)
KR from 20 Mar 2018	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm

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
TR	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
PL	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 67 mg/m³ ② 100 mg/m³
RU	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	③ 10 mg/m³
CZ from 1 Jan 2024	**1-butoxypropan-2-ol** CAS No.: 5131-66-8 EC No.: 225-878-4	① 49 ppm (270 mg/m³) ② 100 ppm (550 mg/m³) ⑤ (může pronikat pokožkou) D, I
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
ACGIH (US)	**citral; 3,7-Dimethyl-2,6-octadienal** CAS No.: 5392-40-5 EC No.: 226-394-6	① 5 ppm ⑤ (inhalable fraction and vapor, may be absorbed through the skin)
PL	**citral; 3,7-Dimethyl-2,6-octadienal** CAS No.: 5392-40-5 EC No.: 226-394-6	① 27 mg/m³ ② 54 mg/m³
IE from 21 Aug 2018	**citral; 3,7-Dimethyl-2,6-octadienal** CAS No.: 5392-40-5 EC No.: 226-394-6	① 5 ppm ⑤ (inhalable fraction and vapour)
BE from 21 Jan 2020	**citral; 3,7-Dimethyl-2,6-octadienal** CAS No.: 5392-40-5 EC No.: 226-394-6	① 5 ppm (32 mg/m³) ⑤ (vapeur et Aérosol; peut être absorbé par la peau) D
ES from 1 May 2021	**citral; 3,7-Dimethyl-2,6-octadienal** CAS No.: 5392-40-5 EC No.: 226-394-6	① 5 ppm ⑤ (puede ser absorbido a través dérmica, [EinatmFraktK][und][Dampf1]) vía dérmica, Sen, FIV

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
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

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-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	67.5 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	67.5 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	101.2 mg/m³	① DNEL worker ② Acute - inhalation, local effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	20 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	147 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	43 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	52 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	22 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	12.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, 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, 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-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	1 mg/L	① PNEC aquatic, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	0.1 mg/L	① PNEC aquatic, marine water
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	200 mg/L	① PNEC sewage treatment plant
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	4 mg/kg bw/day	① PNEC sediment, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	0.4 mg/kg bw/day	① PNEC sediment, marine water
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 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: orange, opak
Odour: fruchtig
flammability: No

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	3 – 4		
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	102 °C		
Decomposition temperature	*not applicable*		
Flash point	*not applicable*		
Evaporation rate	*No data available*		
Auto-ignition temperature	*No data available*		
Upper/lower flammability or explosive limits	*not applicable*		
Vapour pressure	≈ 23 hPa	20 °C	
Vapour density	*not applicable*		
Density	1.02 g/cm³		
Bulk density	*not applicable*		
Water solubility	miscible		
Partition coefficient: n-octanol/water	*not applicable*		
Dynamic viscosity	*No data available*		
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

Isotridecanol, ethoxylated (>5-20 EO) CAS No.: 69011-36-5
LD_{50} oral: >2,000 mg/kg (Ratte)
LD_{50} dermal: >2,000 mg/kg (Kaninchen)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LD_{50} oral: 5,660 mg/kg (Rat)
LD_{50} dermal: 4,000 mg/kg (Rabbit)
1-Propanaminium, 2-Hydroxy-N-(2-hydroxypropyl)-N, N-dimethyl-, esters with fatty acids, C18 CAS No.: 1474044-71-7 EC No.: 939-685-4
LD_{50} oral: >2,000 mg/kg (rat)
LD_{50} dermal: >2,000 mg/kg (rat)
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
LD_{50} oral: 3,300 mg/kg (Rat) OECD 401
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (vapour): >651 mg/L 4 h (Rat) OECD 403
Fatty acid monoethanolamide polyethylene glycol ether CAS No.: 85536-23-8 EC No.: 932-164-2
LD_{50} oral: >2,000 mg/kg (Ratte)
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:
Causes skin irritation.

Serious eye damage/irritation:
Causes serious eye damage.

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.

Other information:
Has degreasing effect on the skin. After cleaning apply high-fat content skin care cream.

SECTION 12: Ecological information

12.1. Toxicity

Isotridecanol, ethoxylated (>5-20 EO) CAS No.: 69011-36-5
LC_{50}: >1 – 10 mg/L 4 d (fish, Cyprinus carpio)
EC_{50}: >1 – 10 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 3.4 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) EU Method C.3 (Algal Inhibition test)
NOEC: 0.218 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
ErC_{50}: >1 – 10 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LC_{50}: 1,300 mg/L 4 d (fish, Lepomis macrochirus) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 1,101 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: >100 mg/L 4 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna) EU Method C.2 (Acute Toxicity for Daphnia)
NOEC: 1,000 mg/L (Algae/water plant, Scenedesmus quadricauda)
NOEC: >100 mg/L 4 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: ≥100 mg/L 2 d (crustaceans, Daphnia magna) EU Method C.2 (Acute Toxicity for Daphnia)
1-Propanaminium, 2-Hydroxy-N-(2-hydroxypropyl)-N, N-dimethyl-, esters with fatty acids, C18 CAS No.: 1474044-71-7 EC No.: 939-685-4
LC_{50}: >10 mg/L 4 d (fish, Cyprinus carpio) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 0.95 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: >8.6 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 0.39 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: 0.1 mg/L 21 d (crustaceans, Daphnia magna) EPA OTS 797.1330 (Daphnid Chronic Toxicity Test)
LOEC: 0.21 mg/L 21 d (crustaceans, Daphnia magna) EPA OTS 797.1330 (Daphnid Chronic Toxicity Test)
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
LC_{50}: 560 – 1,000 mg/L 4 d (fish, Poecilia reticulata (Guppy)) OECD 203
LC_{50}: >560 – <1,000 mg/L 4 d (fish, Poecilia reticulata) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202
EC_{50}: >1,000 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC_{50}: >180 – <320 mg/L 4 d (fish, Poecilia reticulata) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC: 560 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata)
NOEC: 180 mg/L 4 d (fish, Poecilia reticulata) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC: 560 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 560 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
ErC_{50}: >1,000 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata)

Fatty acid monoethanolamide polyethylene glycol ether CAS No.: 85536-23-8 EC No.: 932-164-2
LC_{50}: 13 mg/L 4 d (fish)
LC_{50}: 9.5 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 22 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: 2.9 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 3.8 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 3.2 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: 0.77 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC: 2.2 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 0.379 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
LOEC: 0.84 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction 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:
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

Isotridecanol, ethoxylated (>5-20 EO) CAS No.: 69011-36-5
Biodegradation: Yes, rapidly
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
Biodegradation: Yes, rapidly
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
Biodegradation: Yes, rapidly
Remark: OECD 301E: Modified OECD Screening Test: 90 %; GLP / 28 days

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

Isotridecanol, ethoxylated (>5-20 EO) CAS No.: 69011-36-5
Log K_{OW}: 2.4
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
Log K_{OW}: 0.56
1-Propanaminium, 2-Hydroxy-N-(2-hydroxypropyl)-N, N-dimethyl-, esters with fatty acids, C18 CAS No.: 1474044-71-7 EC No.: 939-685-4
Log K_{OW}: 4.43
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
Log K_{OW}: 1.2
Fatty acid monoethanolamide polyethylene glycol ether CAS No.: 85536-23-8 EC No.: 932-164-2
Log K_{OW}: ≤ 5.73

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:
The product has not been tested.

12.4. Mobility in soil
The product has not been tested.

12.5. Results of PBT and vPvB assessment

Isotridecanol, ethoxylated (>5-20 EO) CAS No.: 69011-36-5
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Siloxanes and silicones, {3-[(2-Aminoethyl)amino]propyl}methyl-, Dimethyl CAS No.: 102782-92-3
Results of PBT and vPvB assessment: —
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
1-Propanaminium, 2-Hydroxy-N-(2-hydroxypropyl)-N, N-dimethyl-, esters with fatty acids, C18 CAS No.: 1474044-71-7 EC No.: 939-685-4
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Fatty acid monoethanolamide polyethylene glycol ether CAS No.: 85536-23-8 EC No.: 932-164-2
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

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

Directive 2008/98/EC (Waste Framework Directive)

HP 4	Irritant — skin irritation and eye damage

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			
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 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:
2 - obviously 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:
2-(2-butoxyethoxy)ethanol, 1-Propanaminium, 2-Hydroxy-N-(2-hydroxypropyl)-N, N-dimethyl-,

esters with fatty acids, C18, 1-butoxypropan-2-ol, Fatty acid monoethanolamide polyethylene glycol ether, 2-phenoxyethanol, Fragrance citral, 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
1-Propanaminium, 2-Hydroxy-N-(2-hydroxypropyl)-N, N-dimethyl-, esters with fatty acids, C18 CAS No.: 1474044-71-7 EC No.: 939-685-4	LD_{50} oral; LD_{50} dermal; LC_{50}; EC_{50}; NOEC; LOEC	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/
Isotridecanol, ethoxylated (>5-20 EO) CAS No.: 69011-36-5	EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

Substance name	Type	source of supply
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
Fatty acid monoethanolamide polyethylene glycol ether CAS No.: 85536-23-8 EC No.: 932-164-2	LC_{50}; EC_{50}; NOEC; 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
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	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.
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.
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.
H412	Harmful 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.