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

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

* **1.1. Product identifier**

Trade name/designation:

RAVENOL Sommer-Scheibenreiniger 1:10

Article No.:

1360080

UFI:

CTKA-E733-8V5Y-3CUR

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

Use of the substance/mixture:

Reiniger

* **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: +49 700 24 112 112 (Contract ID: RAV) / +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 (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	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



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Hazard components for labelling:

2-aminoethanol; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine; N,N-dimethyldecylamine N-oxide; 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	
P280	Wear protective gloves and eye/face protection.

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.

* **2.3. Other hazards**

Other adverse effects:

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

SECTION 3: Composition/information on ingredients

* **3.2. Mixtures**

Additional information:

Regulation (EC) No. 648/2004 [Detergents regulation]: 15-30 % amphoteric surfactants, 15-30 % anionic surfactants, perfumes, linalool, citral, 2-phenoxyethanol

Hazardous ingredients / Hazardous impurities / Stabilisers:

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	1-butoxypropan-2-ol Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) ⚠ Warning	0 - < 1.5 weight-%
CAS No.: 141-43-5 EC No.: 205-483-3 Index No.: 603-030-00-8	2-aminoethanol Acute Tox. 4 (H332, H312, H302), Skin Corr. 1B (H314) ⚠⚠ Danger Specific concentration limit (SCL) STOT SE 3; H335: C ≥ 5%	0 - < 1.5 weight-%
CAS No.: 2605-79-0 EC No.: 220-020-5	N,N-dimethyldecylamine N-oxide Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318) ⚠⚠⚠ Danger	0 - < 1.5 weight-%
CAS No.: 121617-08-1 EC No.: 939-464-2	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Corr. 1C (H314) ⚠ Danger	0 - < 1.5 weight-%
CAS No.: 122-99-6 EC No.: 204-589-7 Index No.: 603-098-00-9	2-phenoxyethanol Acute Tox. 4 (H302), Eye Dam. 1 (H318), STOT SE 3 (H335) ⚠⚠ Danger Acute Toxicity Estimate ATE (oral): 1,394 mg/kg	0 - < 1.5 weight-%
CAS No.: 107-98-2 EC No.: 203-539-1 Index No.: 603-064-00-3	1-methoxypropan-2-ol Flam. Liq. 3 (H226), STOT SE 3 (H336) ⚠⚠ Warning	0 - < 1 weight-%
CAS No.: 102-71-6 EC No.: 203-049-8	2,2',2''-nitrilotriethanol The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	0 - < 0.05 weight-%
CAS No.: 34590-94-8 EC No.: 252-104-2	(2-methoxymethylethoxy)propanol Substance with a community workplace exposure limit.	0 - < 0.05 weight-%



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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 78-70-6 EC No.: 201-134-4	linalool Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0 - < 0.05 weight-%

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

SECTION 4: First aid measures

* 4.1. Description of first aid measures

General information:

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

Following inhalation:

Provide fresh air. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

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. Causes serious eye irritation.

Following ingestion:

Rinse mouth thoroughly with water. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Self-protection of the first aider:

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

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

Serious eye damage/eye irritation. Causes skin irritation.

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

Treat symptomatically. Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

* 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use sand, extinguishing powder or alcohol resistant foam. Non-combustible liquids.

Unsuitable extinguishing media:

Full water jet

* 5.2. Special hazards arising from the substance or mixture

During heating or in case of fire, toxic gases is possible.

Hazardous combustion products:

Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO2)

During heating or in case of fire, toxic gases is possible.

5.3. Advice for firefighters

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

* 5.4. Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

* 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment. Avoid contact with skin, eyes and clothes.

Protective equipment:

Personal protection equipment: see section 8



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Emergency procedures:

Remove persons to safety. Provide adequate ventilation.

6.1.2. For emergency responders

Personal protection equipment:

Use appropriate respiratory protection.

* **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

* **6.3. Methods and material for containment and cleaning up**

For containment:

Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up:

Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 13: Disposal considerations

6.5. Additional information

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

* **7.1. Precautions for safe handling**

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination. Keep container tightly closed.

Fire prevent measures:

No special fire protection measures are necessary.

Environmental precautions:

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

Advices on general occupational hygiene

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

* **7.2. Conditions for safe storage, including any incompatibilities**

Technical measures and storage conditions:

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

Requirements for storage rooms and vessels:

No special measures are necessary. Shafts and sewers must be protected from entry of the product. Keep only in the original container in a cool, well-ventilated place.

Hints on storage assembly:

TRGS 510

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:

Keep away from heat. Protect from direct sunlight. Protect against: Frost

Keep container tightly closed.

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.



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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
CZ from 1 Mar 2020	1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	① 49.14 ppm (270 mg/m ³) ② 100.1 ppm (550 mg/m ³) ⑤ (může pronikat pokožkou) D, I
BE	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (peut être absorbé par la peau) D
CZ from 1 Mar 2020	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 0.985 ppm (2.5 mg/m ³) ② 2.955 ppm (7.5 mg/m ³) ⑤ I
PL from 12 Jun 2018	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 2.5 mg/m ³ ② 7.5 mg/m ³ ⑤ (może przenikać przez skórę do organizmu) skóra
NO from 1 May 2007	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ⑤ (kan absorberes gjennom huden) HE
IE from 4 May 2010	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
MY from 1 Jan 2000	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm (7.5 mg/m ³)
HTP (FI)	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (kan absorberas genom huden) iho
LT from 21 Aug 2018	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (tikėtinas įsisavinimas per odą) O
DK from 28 Jun 2022	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (kan optages gennem huden) EH
SE from 1 Jun 2016	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.5 mg/m ³) ⑤ (kan absorberas genom huden)
NPEL (SK) from 23 Nov 2011	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (rátajte so vstrebávaním cez pokožku) K
MAK (AT) from 25 Sept 2018	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	② 3 ppm (7.6 mg/m ³) ⑤ (max. 4x15 min./Schicht) Sh
HU	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 2.5 mg/m ³ ② 7.6 mg/m ³ ⑤ (felvehető a bőrön keresztül) b, T
BG from 6 Jan 2012	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (трябва да се очаква абсорбиране през кожата)



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
HR	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (mora se uzeti u obzir prodiranje kroz kožu) koža
ES from 1 Jan 2009	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.5 mg/m ³) ⑤ (puede ser absorbido a través dérmica) vía dérmica, VLI
RO from 21 Aug 2018	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (e de asteptat asimilarea prin piele) P
EE from 17 Jun 2020	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (naha kaudu kergesti absorbeeruvad ained) A
LV	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 0.2 ppm (0.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (var absorbēt caur ādu) Āda
Alberta (CA)	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm (7.5 mg/m ³) ② 6 ppm (15 mg/m ³) ⑤ 3
BC (CA)	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm ② 6 ppm
IOELV (EU)	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (may be absorbed through the skin)
JP	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm (7.5 mg/m ³)
VRC (FR) from 1 Jul 2008	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (peut être absorbé par la peau)
WEL (GB) from 1 Oct 2007	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (may be absorbed through the skin)
SI from 4 Dec 2018	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K,Y, EU2
TW	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm (7.5 mg/m ³)
KR	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm (8 mg/m ³) ② 6 ppm (15 mg/m ³)
IS	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð) H
CN from 1 Jan 2007	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 8 mg/m ³ ② 15 mg/m ³



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GR from 1 Oct 2016	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (αναμένετε απορρόφηση από το δέρμα)
NL from 20 May 2021	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 2.5 mg/m ³ ② 7.6 mg/m ³ ⑤ (kan door de huid in het lichaam worden opgenomen) H
TR	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (cilt yoluyla alınabilir) Deri
MAK (AT) from 11 Sept 2007	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ⑤ Sh
RU	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	③ 0.5 mg/m ³
Québec (CA)	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm (7.5 mg/m ³) ② 6 ppm (15 mg/m ³)
OSHA (US)	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm (6 mg/m ³)
NIOSH (US)	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm (8 mg/m ³) ② 6 ppm (15 mg/m ³)
ACGIH (US)	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 3 ppm (7.5 mg/m ³) ② 6 ppm (15 mg/m ³)
CH from 1 Jan 2022	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 2 ppm (5 mg/m ³) ② 4 ppm (10 mg/m ³) ⑤ (Dampf und Aerosol) S; Tox: Haut Fatigue Auge; Messmeth: NIOSH
TRGS 900 (DE) from 4 Nov 2016	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 0.2 ppm (0.5 mg/m ³) ② 0.2 ppm (0.5 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) DFG, EU, Y, Sh, H, 11
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/m ³) ② 1 ppm (5.7 mg/m ³) ⑤ (Aerosol und Dampf) DFG, Y, 11
PL	2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	① 230 mg/m ³
HTP (FI)	2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	① 20 ppm (110 mg/m ³) ② 50 ppm (290 mg/m ³) ⑤ (kan absorberas genom huden) iho
Ontario (CA)	2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	① 25 ppm (141 mg/m ³) 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/m ³) ② 1 ppm (5.7 mg/m ³) ⑤ Y
RU	2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	③ 2 mg/m ³



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MAK (AT) from 25 Sept 2018	2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	① 20 ppm (110 mg/m ³) ② 20 ppm (110 mg/m ³) ⑤ (Momentanwert)
CH from 1 Jan 2022	2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	① 20 ppm (110 mg/m ³) ② 20 ppm (110 mg/m ³) ⑤ (Dampf und Aerosol) SSC; Tox: OAW Auge; Messmeth: BIA
BE from 3 Oct 2018	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm (184 mg/m ³) ② 100 ppm (369 mg/m ³) ⑤ (peut être absorbé par la peau) D
CZ from 1 Mar 2020	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 72.09 ppm (270 mg/m ³) ② 146.85 ppm (550 mg/m ³) ⑤ (může pronikat pokožkou) D
TRGS 900 (DE)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (370 mg/m ³) ② 200 ppm (740 mg/m ³) ⑤ DFG, EU, Y
PL from 12 Jun 2018	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 180 mg/m ³ ② 360 mg/m ³ ⑤ (może przenikać przez skórę do organizmu) skóra
NO	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm (180 mg/m ³) ⑤ (kan absorberes gjennom huden) HE
IE from 4 May 2010	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ IOELV
HTP (FI)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (370 mg/m ³) ② 150 ppm (560 mg/m ³) ⑤ (kan absorberas genom huden) iho
DK from 28 Jun 2022	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm (185 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (kan optages gennem huden) EH
LT from 1 Nov 2011	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm (190 mg/m ³) ② 75 ppm (300 mg/m ³) ⑤ (tikėtinas įsisavinimas per odą) O
SE from 1 Jun 2016	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm (190 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (kan absorberas genom huden)
NPEL (SK) from 23 Nov 2011	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (rátajte so vstrebávaním cez pokožku) K
BG	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (трябва да се очаква абсорбиране през кожата)
HR	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³)



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ES	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (puede ser absorbido a través dérmica) vía dérmica, VLI
RO from 21 Aug 2018	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (e de așteptat asimilarea prin piele) P
EE from 17 Jan 2020	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (1-metoksü-2-propanool (propüleenglükool-monometüüleeter, o-metüülpropüleen-glükool S
LV	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (var absorbet caur adu) Āda
Alberta (CA)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (369 mg/m ³) ② 150 ppm (553 mg/m ³)
BC (CA) from 1 Jun 2018	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm ② 100 ppm
IOELV (EU)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (may be absorbed through the skin)
VRC (FR) from 1 Jun 2008	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm (188 mg/m ³) ② 100 ppm (375 mg/m ³) ⑤ (peut être absorbé par la peau)
MAK (AT)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm (187 mg/m ³) ② 50 ppm (187 mg/m ³) ⑤ (Momentanwert, kann über die Haut aufgenommen werden) H
WEL (GB)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (560 mg/m ³) ⑤ (may be absorbed through the skin)
SI from 4 Dec 2018	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K, Y, BAT, EU1
TW	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (369 mg/m ³)
KR	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (360 mg/m ³) ② 150 ppm (540 mg/m ³)
HU	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 375 mg/m ³ ② 568 mg/m ³ ⑤ (felvehető a bőrön keresztül) b, R+T
IS	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm (185 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð) H



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MY from 1 Jan 2000	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (369 mg/m ³)
NL	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 375 mg/m ³ ② 563 mg/m ³ ⑤ (kan door de huid in het lichaam worden opgenomen) H
GR from 1 Oct 2016	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (360 mg/m ³) ② 300 ppm (1,080 mg/m ³) ⑤ (αναμένετε απορρόφηση από το δέρμα)
TR	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (375 mg/m ³) ② 150 ppm (568 mg/m ³) ⑤ (cilt yoluyla alınabilir) Deri
Québec (CA)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (369 mg/m ³) ② 150 ppm (553 mg/m ³)
NIOSH (US)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (360 mg/m ³) ② 150 ppm (540 mg/m ³)
ACGIH (US) from 1 Jan 2013	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 50 ppm (184 mg/m ³) ② 100 ppm (369 mg/m ³)
CH from 1 Jan 2022	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	① 100 ppm (360 mg/m ³) ② 200 ppm (720 mg/m ³) ⑤ SSC B; Tox: OAW Auge
BE	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³
CZ from 1 Mar 2020	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 0.805 ppm (5 mg/m ³) ② 1.61 ppm (10 mg/m ³) ⑤ (může pronikat pokožkou) D, I
NO	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³
IE	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³
HTP (FI)	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 ppm
LT	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³ ② 10 mg/m ³ ⑤ J
CH from 1 Jan 2022	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³ ② 5 mg/m ³ ⑤ (einatembare Fraktion) SSC; Tox: OAW Haut Auge; Messmeth: NIOSH
DK	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 0.5 ppm (3.1 mg/m ³) ② 1 ppm (6.2 mg/m ³)
Alberta (CA)	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³ ⑤ 3



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
ES	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³
BC (CA)	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³
Ontario (CA)	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 0.5 ppm (3.1 mg/m ³)
MAK (AT)	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 0.8 ppm (5 mg/m ³) ⑤ (einatembare Fraktion) S
IS	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³ ⑤ 0
TRGS 900 (DE) from 7 Jun 2018	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 1 mg/m ³ ② 1 mg/m ³ ⑤ (einatembare Fraktion) DFG, Y
MY from 1 Jan 2000	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³
MAK (AT)	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	② 1.6 ppm (10 mg/m ³) ⑤ (einatembare Fraktion, max. 4x15 min./Schicht) S
SE from 1 Jul 2012	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 0.8 ppm (5 mg/m ³) ③ 1.6 ppm (10 mg/m ³) ⑤ (kan absorberas genom huden)
ACGIH (US)	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³
Québec (CA)	2,2',2''-nitrioltriethanol CAS No.: 102-71-6 EC No.: 203-049-8	① 5 mg/m ³
IDLH (US) from 1 Jan 1994	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 600 ppm
BE	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (peut être absorbé par la peau) D
CZ from 1 Mar 2020	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 43.74 ppm (270 mg/m ³) ② 89.1 ppm (550 mg/m ³) ⑤ (může pronikat pokožkou) D
PL from 12 Jun 2018	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 240 mg/m ³ ② 480 mg/m ³ ⑤ (może przenikać przez skórę do organizmu) skóra
NO	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (300 mg/m ³) ⑤ (kan absorberes gjennom huden) HE
IE	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
MY from 1 Jan 2000	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (606 mg/m ³) ⑤ (resapan melalui kulit hendaklah diambil kira)
HTP (FI)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (310 mg/m ³) ⑤ (kan absorberas genom huden) iho



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DK from 13 Feb 2021	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (309 mg/m ³) ② 100 ppm (618 mg/m ³) ⑤ (kan optages gennem huden) EH
LT from 21 Aug 2018	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ② 75 ppm (450 mg/m ³) ⑤ (tikėtinas įsisavinimas per odą) O
SE	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (300 mg/m ³) ③ 75 ppm (450 mg/m ³) ⑤ (kan absorberas genom huden)
NPEL (SK)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (rátajte so vstrebávaním cez pokožku) K
MAK (AT)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (307 mg/m ³) ② 100 ppm (614 mg/m ³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H
BG from 6 Jan 2012	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (трябва да се очаква абсорбиране през кожата)
HR	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (mora se uzeti u obzir prodiranje kroz kožu) koža
RO from 21 Aug 2018	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (e de asteptat asimilarea prin piele) P
EE from 17 Jan 2020	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (naha kaudu kergesti absorbeeruvad ained) A
ES	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (puede ser absorbido a través dérmica) vía dérmica, VLI
LV	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (var absorbet caur adu) Āda
Alberta (CA)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (606 mg/m ³) ② 150 ppm (909 mg/m ³)
IOELV (EU)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (may be absorbed through the skin)
VRC (FR)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (peut être absorbé par la peau)
SI from 4 Dec 2018	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ② 50 ppm (308 mg/m ³) ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K, EU1
TW	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (606 mg/m ³) ⑤ (#####)
WEL (GB)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (may be absorbed through the skin)



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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
KR	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (600 mg/m ³) ② 150 ppm (900 mg/m ³) ⑤ (### ## #### ##### ##)
HU from 1 Jul 2018	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 308 mg/m ³ ⑤ R
IS	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (300 mg/m ³) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð) H
CN from 1 Apr 2020	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 600 mg/m ³ ② 900 mg/m ³ ⑤ (#####)
GR from 1 Oct 2016	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (600 mg/m ³) ② 150 ppm (900 mg/m ³) ⑤ (αναμένετε απορρόφηση από το δέρμα)
NL	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 300 mg/m ³
TR	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (cilt yoluyla alınabilir) Deri
IS	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (300 mg/m ³)
ACGIH (US) from 1 Jan 2022	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm
BC (CA) from 22 Jun 2022	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm ② 150 ppm
Québec (CA)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (606 mg/m ³) ② 150 ppm (909 mg/m ³)
OSHA (US)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (600 mg/m ³) ⑤ (may be absorbed through the skin)
NIOSH (US)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (600 mg/m ³) ② 150 ppm (900 mg/m ³) ⑤ (may be absorbed through the skin)
CH from 1 Jan 2022	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (300 mg/m ³) ② 50 ppm (300 mg/m ³) ⑤ (Dampf und Aerosol) Tox: AW Auge Nase; Messmeth: NIOSH
TRGS 900 (DE)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (310 mg/m ³) ② 50 ppm (310 mg/m ³) ⑤ (Aerosol und Dampf) DFG, EU, 11
RU	linalool CAS No.: 78-70-6 EC No.: 201-134-4	③ 5 mg/m ³



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8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
BAT (CH)	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	20 mg/L	① 1-Methoxypropan-2-ol ② Urin ③ Expositionsende bzw. Schichtende
TRGS 903 (DE) from 1 Nov 2012	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	15 mg/L	① Methoxypropanol-2 ② Urin ③ Expositionsende bzw. Schichtende
BAT (SI) from 4 Dec 2018	1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	15 mg/L	① 1-metoksipropan-2-ol ② urin ③ ob koncu delovne izmene

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	147 mg/m ³	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/m ³	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-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	3.3 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	2 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	1 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.24 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	3.75 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	6.2 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	11 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2	4.1 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects



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Substance name	DNEL value	① DNEL type ② Exposure route
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2	5.29 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	8.07 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	8.07 mg/m ³	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
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	369 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	43.9 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	553.5 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	50.6 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	18.1 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1	3.3 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
2,2',2''-nitrilotriethanol CAS No.: 102-71-6 EC No.: 203-049-8	5 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2,2',2''-nitrilotriethanol CAS No.: 102-71-6 EC No.: 203-049-8	1.25 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
2,2',2''-nitrilotriethanol CAS No.: 102-71-6 EC No.: 203-049-8	5 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
2,2',2''-nitrilotriethanol CAS No.: 102-71-6 EC No.: 203-049-8	1.25 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
2,2',2''-nitrilotriethanol CAS No.: 102-71-6 EC No.: 203-049-8	6.3 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2,2',2''-nitrilotriethanol CAS No.: 102-71-6 EC No.: 203-049-8	3.1 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
2,2',2''-nitrilotriethanol CAS No.: 102-71-6 EC No.: 203-049-8	13 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	308 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	283 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
linalool CAS No.: 78-70-6 EC No.: 201-134-4	2.8 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects



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Substance name	DNEL value	① DNEL type ② Exposure route
linalool CAS No.: 78-70-6 EC No.: 201-134-4	16.5 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
linalool CAS No.: 78-70-6 EC No.: 201-134-4	2.5 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
linalool CAS No.: 78-70-6 EC No.: 201-134-4	5 mg/kg bw/ day	① DNEL worker ② Acute - dermal, systemic effects
linalool CAS No.: 78-70-6 EC No.: 201-134-4	3 mg/cm ²	① DNEL worker ② Long-term - dermal, local effects
linalool CAS No.: 78-70-6 EC No.: 201-134-4	3 mg/cm ²	① DNEL worker ② Acute - dermal, local effects

Substance name	PNEC Value	① PNEC type
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.085 mg/L	① PNEC aquatic, freshwater
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.009 mg/L	① PNEC aquatic, marine water
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	100 mg/L	① PNEC sewage treatment plant
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.434 mg/kg bw/day	① PNEC sediment, freshwater
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.043 mg/kg bw/day	① PNEC sediment, marine water
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.037 mg/kg bw/day	① PNEC soil
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.028 mg/L	① PNEC aquatic, intermittent release
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	0.034 mg/L	① PNEC aquatic, freshwater
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	0.003 mg/L	① PNEC aquatic, marine water
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	4.59 mg/L	① PNEC sewage treatment plant
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	5.24 mg/kg bw/day	① PNEC sediment, freshwater
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	0.524 mg/kg bw/day	① PNEC sediment, marine water
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	1.02 mg/kg bw/day	① PNEC soil
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	11.1 mg/kg	① PNEC secondary poisoning
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5	0.034 mg/L	① PNEC aquatic, intermittent release



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Substance name	PNEC Value	① PNEC type
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2	0.268 mg/L	① PNEC aquatic, freshwater
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2	0.027 mg/L	① PNEC aquatic, marine water
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2	7 mg/L	① PNEC sewage treatment plant
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2	8.1 mg/kg bw/day	① PNEC sediment, freshwater
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2	8.1 mg/kg bw/day	① PNEC sediment, marine water
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2	35 mg/kg bw/day	① PNEC soil
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2	0.268 mg/L	① PNEC aquatic, intermittent release
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
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	19 mg/L	① PNEC aquatic, freshwater
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	1.9 mg/L	① PNEC aquatic, marine water
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	4,168 mg/L	① PNEC sewage treatment plant



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Substance name	PNEC Value	① PNEC type
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	70.2 mg/kg bw/day	① PNEC sediment, freshwater
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	7.02 mg/kg bw/day	① PNEC sediment, marine water
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	2.74 mg/kg bw/day	① PNEC soil
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	190 mg/L	① PNEC aquatic, intermittent release
linalool CAS No.: 78-70-6 EC No.: 201-134-4	0.2 mg/L	① PNEC aquatic, freshwater
linalool CAS No.: 78-70-6 EC No.: 201-134-4	0.02 mg/L	① PNEC aquatic, marine water
linalool CAS No.: 78-70-6 EC No.: 201-134-4	10 mg/L	① PNEC sewage treatment plant
linalool CAS No.: 78-70-6 EC No.: 201-134-4	2.22 mg/kg bw/day	① PNEC sediment, freshwater
linalool CAS No.: 78-70-6 EC No.: 201-134-4	0.22 mg/kg bw/day	① PNEC sediment, marine water
linalool CAS No.: 78-70-6 EC No.: 201-134-4	0.327 mg/kg bw/day	① PNEC soil
linalool CAS No.: 78-70-6 EC No.: 201-134-4	7.8 mg/kg	① PNEC secondary poisoning
linalool CAS No.: 78-70-6 EC No.: 201-134-4	2 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:

During transfer: Eye glasses with side protection
 DIN-/EN-Norms EN 166

Skin protection:

Hand protection

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

Thickness of the glove material: ≥ 0,4 mm

Breakthrough time: 480 min

Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Tested protective gloves must be worn: EN ISO 374

Suitable protective clothing: Protective clothing

Respiratory protection:

Usually no personal respiratory protection necessary.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.



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8.3. Additional information

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: red

Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	9 - 10	20 °C	
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	<i>not determined</i>		
Decomposition temperature	<i>not applicable</i>		
Flash point	<i>not determined</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not applicable</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	1,100 kg/m ³	20 °C	
Relative density	<i>not determined</i>		
Bulk density	<i>not applicable</i>		
Water solubility	completely miscible		
Partition coefficient: n-octanol/water	<i>not applicable</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	25.5 mm ² /s	20 °C	

* 9.2. Other information

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

No special measures are necessary.

* 10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.



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SECTION 11: Toxicological information

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

1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
LD₅₀ oral: 3,300 mg/kg (Rat) OECD 401
LD₅₀ dermal: >2,000 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (vapour): >651 mg/L 4 h (Rat) OECD 403
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
LD₅₀ oral: 1,089 mg/kg (Rat) OECD 401
LD₅₀ dermal: 2,504 mg/kg (Rabbit) OECD 402
LC₅₀ Acute inhalation toxicity (vapour): >1.3 mg/L (Rat)
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5
LD₅₀ oral: 300 - 2,000 mg/kg (Rat) OECD 401
LD₅₀ dermal: >2,000 mg/kg (Rat) OECD 402
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2
LD₅₀ oral: 2,975 mg/kg (Rat) OECD 401
LD₅₀ dermal: >2,000 mg/kg (Rabbit) OECD 402
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7
ATE (oral)¹: 1,394 mg/kg
LD₅₀ oral: 1,850 mg/kg (Rat) OECD 401
LD₅₀ dermal: 14,422 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (dust/mist): >1 mg/L 6 h (Rat) OECD 412
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1
LD₅₀ oral: 4,016 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (vapour): >7,000 mg/L 6 h (Rat) OECD 403
LC₅₀ Acute inhalation toxicity (dust/mist): 27,596 mg/L 6 h (Rat) OECD 403
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2
LD₅₀ oral: >5,000 mg/kg (Rat) OECD 401
LD₅₀ dermal: 9,510 mg/kg (Rabbit) OECD 402
LC₅₀ Acute inhalation toxicity (vapour): >1,667 mg/L 7 h (Rat) OECD 403

¹: Acute Toxicity Estimate. Harmonised (legal) classification.

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.



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Aspiration hazard:

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

Additional information:

No data available

* **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:

No information available.

SECTION 12: Ecological information

* **12.1. Toxicity**

1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
LC₅₀ : 560 - 1,000 mg/L 4 d (fish, <i>Poecilia reticulata</i> (Guppy)) OECD 203
EC₅₀ : >1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202
EC₅₀ : >1,000 mg/L 4 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>)
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
LC₅₀ : 349 mg/L 4 d (fish, <i>Cyprinus carpio</i> (Common Carp)) Regulation (EC) No. 440/2008, Annex C.1
EC₅₀ : 65 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) Regulation (EC) No. 440/2008, Annex C.2
NOEC : 1 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) OECD 201
ErC₅₀ : 2.8 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) OECD 201
NOEC : 1.24 mg/L 33 d (fish, <i>Oryzias latipes</i> (Ricefish)) OECD 210
NOEC : 0.85 mg/L 21 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5
LC₅₀ : 31.8 mg/L 4 d (fish, <i>Danio rerio</i> (zebrafish)) OECD 203
EC₅₀ : 3.1 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202
NOEC : ≥0.67 mg/L 28 d (Algae/water plant) Calculation method.
NOEC : 0.42 mg/L (fish, <i>Pimephales promelas</i> (fathead minnow)) OPPTS 850.1500 Longterm 302 days
NOEC : 0.7 mg/L 21 d (Algae/water plant, <i>Daphnia magna</i> (Big water flea)) OECD 211
IC₅₀ : 0.16 mg/L (Algae/water plant) literature value
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2
LC₅₀ : 5.7 mg/L 4 d (fish, <i>Danio rerio</i> (zebrafish)) Regulation (EC) No. 440/2008, Annex C.1
EC₅₀ : 10.6 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) Regulation (EC) No. 440/2008, Annex C.2
NOEC : 3.4 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i>) Regulation (EC) No. 440/2008, Annex C.3
ErC₅₀ : >56.2 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i>) Regulation (EC) No. 440/2008, Annex C.3
ErC₅₀ : 4.8 mg/L (Algae/water plant, <i>Lemna minor</i> (little duckweed)) 7 days / other
NOEC : 1 mg/L 28 d (fish, <i>Lepomis macrochirus</i> (Bluegill)) OECD 204
NOEC : 2.8 mg/L 21 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7
LC₅₀ : 220 - 460 mg/L 4 d (fish, <i>Leuciscus idus</i> (golden orfe)) DIN 38412 / part 15
EC₅₀ : >500 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202
NOEC : 70 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i>) Regulation (EC) No. 440/2008, Annex C.3
ErC₅₀ : 625 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i>) Regulation (EC) No. 440/2008, Annex C.3
NOEC : 24 mg/L 33 d (fish, <i>Pimephales promelas</i> (fathead minnow)) OECD 210
NOEC : 9.43 mg/L 21 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 211
EC₅₀ : >1,000 mg/L (Activated sludge) Toxicity to microorganisms OECD 209 / 30 minutes
EC₅₀ : 1,494 mg/L (<i>Pseudomonas putida</i>) Toxicity to microorganisms DIN 38412 / part 8 /16 hours
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1
LC₅₀ : >1,000 mg/L (fish, <i>Salmo trutta fario</i> (L) (Freshwater trout))
LC₅₀ : 10,457 mg/L 4 d (crustaceans, <i>Daphnia magna</i> (Big water flea))
EC₅₀ : 23,300 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea))



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(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2
LC₅₀ : >1,000 mg/L 4 d (fish, Poecilia reticulata (Guppy)) OECD 203
EC₅₀ : 1,919 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202
EC₅₀ : >969 mg/L 3 d (Algae/water plant, Selenastrum capricornutum) OECD 201
NOEC : 969 mg/L 3 d (Algae/water plant, Selenastrum capricornutum) OECD 201
NOEC : ≥0.5 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211

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**

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
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
Biodegradation: Yes, rapidly
Remark: OECD 301A: DOC Die-Away Test: >90 %; 21 days
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5
Biodegradation: Yes, rapidly
Remark: OECD 301E: Modified OECD Screening Test: 97 %; GLP / 28 days
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2
Biodegradation: Yes, rapidly
Remark: OECD 301B: CO ⁿ Evolution Test: 101 %; GLP / 28 days
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7
Biodegradation: Yes, rapidly
Remark: OECD 301A: DOC Die-Away Test: >90 %; GLP / 15 days
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1
Biodegradation: Yes, rapidly
Remark: OECD 301C: Modified MITI Test (I): 88-92 % / 28 days
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2
Biodegradation: Yes, rapidly
Remark: OECD 301F: Manometric Respirometry Test: 76 - 96 %; GLP / 28 days

Additional information:

The single components are biodegradable.

* **12.3. Bioaccumulative potential**

1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
Log K_{ow} : 1.2
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
Log K_{ow} : -2.3
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5
Log K_{ow} : < 2.7
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2
Log K_{ow} : 1.5
Bioconcentration factor (BCF): < 3.9 Species: Cyprinus carpio (Common Carp)
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7
Log K_{ow} : 1.2
Bioconcentration factor (BCF): 0.349
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1
Log K_{ow} : < 3
Bioconcentration factor (BCF): 1 Species: Pimephales promelas (fathead minnow)
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2
Log K_{ow} : 0.004



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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**

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.
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
N,N-dimethyldecylamine N-oxide CAS No.: 2605-79-0 EC No.: 220-020-5
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine CAS No.: 121617-08-1 EC No.: 939-464-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
1-methoxypropan-2-ol CAS No.: 107-98-2 EC No.: 203-539-1
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to 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.

Waste treatment options

Appropriate disposal / Product:

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

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

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

SECTION 14: Transport information

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



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

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

Regulation (EC) No. 648/2004 [Detergents regulation]: 15-30 % amphoteric surfactants, 15-30 % anionic surfactants, perfumes, linalool, citral, 2-phenoxyethanol

15.1.2. National regulations

 **[DE] National regulations**

Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Störfallverordnung (12. BlmschV)

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 - schwach wassergefährdend

Source:

Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe

TRGS 500

TRGS 510

TRGS 900

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868

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

 **[CH] National regulations**

Other regulations, restrictions and prohibition regulations

Mengenschwelle (Schweiz - StFV)

Gefahrencode

Brandverhütung, BVD (Schweiz)

Störfallverordnung (StFV)

15.2. Chemical Safety Assessment

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

15.3. Additional information

No data available



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SECTION 16: Other information

* 16.1. Indication of changes

1.1.	Product identifier
1.3.	Details of the supplier of the safety data sheet
1.4.	Emergency telephone number
2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
4.3.	Indication of any immediate medical attention and special treatment needed
5.1.	Extinguishing media
5.2.	Special hazards arising from the substance or mixture
5.4.	Additional information
6.1.	Personal precautions, protective equipment and emergency procedures
6.2.	Environmental precautions
6.3.	Methods and material for containment and cleaning up
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
9.2.	Other information
10.5.	Incompatible materials
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

16.2. Abbreviations and acronyms

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

67/548/EEC - Dangerous Substances Directive

1999/45/EEC - Dangerous Preparations Directive

EC 1907/2006 - REACH Regulation

1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006

Regulation (EC) No 1907/2006 (REACH), Annex II

European Chemicals Agency (ECHA), C & L classification and labeling inventory

European Chemicals Agency (ECHA), ECHA CHEM Registered substances

OECD The Global Portal to Information on Chemical Substances (ChemPortal)

Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances

Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances

hazardous to water Rigoletto (catalog substances hazardous to water)



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

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

Hazard statements	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	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.

* Data changed compared with the previous version.