

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



LINAX EXTREME

WM 0716329

Order number: 0716329

Version 7.1

Revision Date 11.07.2026

Print Date 14.07.2026

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

1.1 Product identifier

Trade name : LINAX EXTREME
UFI : A4C5-Q08N-H00H-1XYN

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

Use of the Substance/Mixture : Cleaning agent
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642526
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone

EU: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H318 Causes serious eye damage.

Precautionary Statements : P102 Keep out of reach of children.
Prevention:
P260 Do not breathe spray.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337 + P313

If eye irritation persists: Get medical advice/attention.

Disposal:

P501

Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous ingredients which must be listed on the label:

2-phenoxyethanol

Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous surfactant solution.

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-phenoxyethanol	122-99-6 204-589-7 603-098-00-9 01-2119488943-21	Acute Tox. 4; H302 Eye Dam. 1; H318 STOT SE 3; H335 Acute toxicity estimate Acute oral toxicity: 500,0 mg/kg 1.394 mg/kg 1.840 mg/kg 1.394 mg/kg	>= 10 - < 15
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6 603-096-00-8 01-2119475104-44	Eye Irrit. 2; H319	>= 5 - < 10
1-butoxypropan-2-ol	5131-66-8 225-878-4 603-052-00-8 01-2119475527-28	Eye Irrit. 2; H319 Skin Irrit. 2; H315 specific concentration limit	>= 3 - < 5

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		Eye Irrit. 2; H319 > 20 % Skin Irrit. 2; H315 > 20 %	
sodium etasulfate	126-92-1 204-812-8 01-2119971586-23	Skin Irrit. 2; H315 Eye Dam. 1; H318 specific concentration limit Eye Irrit. 2; H319 10 - < 20 % Eye Dam. 1; H318 >= 20 %	>= 1 - < 3

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : corrosive effects
Irritation
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralize with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.

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Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.

Further information on storage stability : No decomposition if stored and applied as directed. Protect from frost.

7.3 Specific end use(s)

Specific use(s) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-(2-butoxyethoxy)ethanol	Not Assigned	TWA	10 ppm 67,5 mg/m ³	2006/15/EC
	Further information: Indicative			
		STEL	15 ppm 101,2 mg/m ³	2006/15/EC
	Further information: Indicative			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
2-phenoxyethanol	Workers	Inhalation	Long-term systemic effects	8,07 mg/m ³
	Workers	Inhalation	Long-term local effects	8,07 mg/m ³
	Workers	Skin contact	Long-term systemic effects	34,72 mg/kg

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	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	2,41 mg/m3
	Consumers	Skin contact	Long-term systemic effects	20,83 mg/kg
	Consumers	Ingestion	Long-term systemic effects	17,43 mg/kg
	Consumers	Ingestion	Acute systemic effects, Short-term exposure	17,43 mg/kg
	Consumers	Ingestion	Acute systemic effects, Long-term systemic effects	9,23 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	10,42 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects, Long-term local effects	5,7 mg/m3
	Workers	Dermal	Long-term systemic effects	20,83 mg/kg bw/day
2-(2-butoxyethoxy)ethanol	Workers	Inhalation	Long-term local effects	67,5 mg/m3
	Workers	Inhalation	Acute local effects	101,2 mg/m3
	Workers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	40,5 mg/m3
	Consumers	Inhalation	Long-term local effects	40,5 mg/m3
	Consumers	Inhalation	Acute local effects	60,7 mg/m3
	Consumers	Dermal	Long-term systemic effects	50 mg/kg
	Consumers	Ingestion	Long-term systemic effects	5 mg/kg
	Consumers	Oral	Long-term systemic effects	6,25 mg/kg bw/day
1-butoxypropan-2-ol	Workers	Inhalation	Long-term systemic effects	147 mg/m3

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	Workers	Skin contact	Long-term systemic effects	52 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	43 mg/m3
	Consumers	Dermal	Long-term systemic effects	22 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12,5 mg/kg bw/day
sodium etasulfate	Workers	Inhalation	Long-term systemic effects	285 mg/m3
	Workers	Skin contact	Long-term systemic effects	4060 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	24 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	85 mg/m3
	Consumers	Skin contact	Long-term systemic effects	2440 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-phenoxyethanol	Fresh water	0,943 mg/l
	Sea water	0,0943 mg/l
	intermittent release	3,44 mg/l
	Fresh water sediment	7,2366 mg/kg
	Sea sediment	0,7237 mg/kg
	STP	36 mg/l
	Soil	1,31 mg/kg
2-(2-butoxyethoxy)ethanol	Fresh water	1,1 mg/l
	Sea water	0,11 mg/l
	Fresh water sediment	4,4 mg/kg
	Sea sediment	0,44 mg/kg
	Soil	0,32 mg/kg

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	STP	200 mg/l
	intermittent release	11 mg/l
1-butoxypropan-2-ol	Fresh water	0,525 mg/l
	Sea water	0,0525 mg/l
	Fresh water sediment	2,36 mg/kg
	Sea sediment	0,236 mg/kg
	Soil	0,16 mg/kg
	STP	10 mg/l
	intermittent release	5,25 mg/l
sodium etasulfate	Fresh water	0,1357 mg/l
	Sea water	0,0136 mg/l
	Fresh water sediment	1,5 mg/kg
	Sea sediment	0,15 mg/kg
	STP	1,35 mg/l
	Soil	0,22 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : If splashes are likely to occur, wear:

Tightly fitting safety goggles

Hand protection

Material : For prolonged or repeated contact use protective gloves.

It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace

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conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.

Recommended Filter type:

ABEK-P3-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Color	: colorless
Odor	: characteristic
Melting point/freezing point	: No data available
Boiling point/boiling range	: No information available.
Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flash point	: does not flash
Ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: ca. 10,3, 100 % at 20 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapor pressure	: No data available
Density	: ca. 1,017 g/cm ³

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Relative density : No data available
Relative vapor density : No data available
Particle characteristics : No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

2-phenoxyethanol

122-99-6:

Acute oral toxicity : LD50 Oral (Rat): 1.260 mg/kg
LD50 Oral (Mouse): 933 mg/kg

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LD50 Oral (Rat, female): 1.850 mg/kg
Method: OECD Test Guideline 401

Acute toxicity estimate: 500,0 mg/kg
Method: Converted acute toxicity point estimate

LD50 (Rat): 2.740 mg/kg
Method: Calculation method

Acute toxicity estimate: 1.394 mg/kg
Method: Converted acute toxicity point estimate

LD50 (Rat, female): 1.840 mg/kg
Method: OECD Test Guideline 401

Acute toxicity estimate: 1.840 mg/kg
Method: Calculation method

Acute toxicity estimate: 1.394 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : LC50 (Rat, male): 1 mg/l
Exposure time: 6 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 412
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

LD50 (Rat): 14.422 mg/kg

LD50 Dermal (Rabbit): 2.214 mg/kg

2-(2-butoxyethoxy)ethanol

112-34-5:

Acute oral toxicity : LD50 Oral (Rat, male): 2.410 mg/kg
Method: OECD Test Guideline 401

LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 29 ppm
Exposure time: 2 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit, male): 2.764 mg/kg
Method: OECD Test Guideline 402

LD50 (Rabbit): > 2.000 mg/kg

1-butoxypropan-2-ol

5131-66-8:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.300 mg/kg
Method: OECD Test Guideline 423

LD50 (Rat): > 2.000 mg/kg

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Acute inhalation toxicity : LC50 (Rat, male and female): 651 mg/l
Exposure time: 4 h

LC50 (Rat): 3,5 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402

sodium etasulfate

126-92-1:

Acute oral toxicity : LD50 Oral (Rat, male and female): 2.840 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg

Skin corrosion/irritation

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

sodium etasulfate

126-92-1:

Species : Rabbit
Result : Skin irritation

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.
Causes serious eye irritation.

Components:

2-phenoxyethanol

122-99-6:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.

2-(2-butoxyethoxy)ethanol

112-34-5:

Result : Moderate eye irritation

sodium etasulfate

126-92-1:

Species : Rabbit
Result : Eye irritation

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Respiratory or skin sensitization

Product:

Remarks : No data available

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT-single exposure

STOT-single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

2-phenoxyethanol

122-99-6:

Assessment : May cause respiratory irritation.

STOT-repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

2-phenoxyethanol

122-99-6:

Species : Rat, male and female
NOAEL : 369 mg/kg
Application Route : Oral
Exposure time : 90 d
Method : OECD Test Guideline 408
GLP : yes
Remarks : Subchronic toxicity

Species : Rabbit, male and female
NOAEL : ≥ 500 mg/kg
Application Route : Dermal
Exposure time : 90 d
Method : OECD Test Guideline 411
Remarks : Subchronic toxicity

sodium etasulfate

126-92-1:

Species : Rabbit, male and female
NOAEL : 488 mg/kg
Application Route : Oral
Exposure time : 90 d
Remarks : Subchronic toxicity

Species : Mouse, male and female

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NOAEL	:	400 mg/kg
Application Route	:	Skin contact
Exposure time	:	90 d
Remarks	:	Subchronic toxicity
Aspiration toxicity	:	Not Rated

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-phenoxyethanol

122-99-6:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 344 mg/l
Exposure time: 96 h
Test Type: flow-through test
Remarks: Fresh water

LC50 (Leuciscus idus (Golden orfe)): 220 - 460 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test

NOEC (Daphnia): 9,43 mg/l
Method: OECD Test Guideline 211

Toxicity to algae/aquatic plants : EC50 : > 500 mg/l
Exposure time: 72 h

ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

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Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 46 mg/l

End point: Growth inhibition

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

Toxicity to microorganisms : EC50 (Pseudomonas putida): 883,3 mg/l
Exposure time: 17 h

EC20 (activated sludge): 620 mg/l
Exposure time: 30 min

EC10 (Pseudomonas putida): 320 mg/l
Exposure time: 17 h
Method: DIN 38 412 Part 8

EC50 (activated sludge): > 1.000 mg/l
Exposure time: 30 min
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC: 23 mg/l
Exposure time: 34 d
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 9,43 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Toxicity to soil dwelling organisms : LC50: 1.000 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)

2-(2-butoxyethoxy)ethanol

112-34-5:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.300 mg/l
Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.850 mg/l
Exposure time: 24 h
Method: DIN 38412

EC50 (Daphnia magna Straus (Water flea)): > 1.101 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (Bacteria): 1.170 mg/l
Exposure time: 16 h

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EC10 (activated sludge): > 1.995 mg/l
Exposure time: 30 min
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

EC50 (activated sludge): > 1.995 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition

1-butoxypropan-2-ol

5131-66-8:

- Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 560 - 1.000 mg/l
Exposure time: 96 h
- NOEC (Poecilia reticulata (guppy)): 180 mg/l
Exposure time: 96 h
- LC50 (Fish): 1.000 mg/l
Exposure time: 96 h
- LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
- EC50 (Fish): < 320 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- NOEC (Daphnia magna (Water flea)): 560 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1.000 mg/l
Exposure time: 96 h
Test Type: Cell multiplication inhibition test
- NOEC (Selenastrum capricornutum): 560 mg/l
Exposure time: 96 h
- Toxicity to microorganisms : EC50 (Bacteria): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

sodium etasulfate

126-92-1:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 483 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 511 mg/l
Exposure time: 72 h
- Toxicity to microorganisms : EC50 (activated sludge): 135 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition

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- Toxicity to fish (Chronic toxicity) : NOEC: ≥ 1.357 mg/l
Exposure time: 42 d
Species: Pimephales promelas (fathead minnow)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,4 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Product:

- Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Components:

2-phenoxyethanol

122-99-6:

- Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301 F
GLP: yes
- Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 90 - 100 %
Exposure time: 15 d
Method: OECD 301 A
GLP: yes

2-(2-butoxyethoxy)ethanol

112-34-5:

- Biodegradability : Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD 301 D
- Result: rapidly biodegradable
Biodegradation: 90 - 100 %
Exposure time: 8 d
Method: OECD 302 B
- Result: rapidly biodegradable
Biodegradation: 90 - 100 %
Exposure time: 14 d
Method: OECD 301 E
- Result: rapidly biodegradable
Biodegradation: ca. 85 %
Exposure time: 28 d
Method: OECD 301 C

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1-butoxypropan-2-ol

5131-66-8:

Biodegradability : Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301 E
Remarks: Readily biodegradable, according to appropriate OECD test.

sodium etasulfate

126-92-1:

Biodegradability : Biodegradation: > 60 %
Exposure time: 14 d
Method: OECD 301 D
Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Result: Biodegradable
Biodegradation: 89 %
Exposure time: 28 d
Method: OECD 301 B

Biochemical Oxygen Demand (BOD) : 342 mg/g
Incubation time: 5 d
Method: see user defined free text

Chemical Oxygen Demand (COD) : 578 mg/g
Method: DIN 38409-H-41

12.3 Bioaccumulative potential

Components:

2-phenoxyethanol

122-99-6:

Bioaccumulation : Bioconcentration factor (BCF): 0,35
Method: see user defined free text

Partition coefficient: n-octanol/water : log Pow: 1,2 (23 °C)
pH: 7
Method: Regulation (EC) No. 440/2008, Annex, A.8
GLP: yes

2-(2-butoxyethoxy)ethanol

112-34-5:

Bioaccumulation : Bioconcentration factor (BCF): 2

Partition coefficient: n-octanol/water : log Pow: 0,56

1-butoxypropan-2-ol

5131-66-8:

Bioaccumulation : Bioconcentration factor (BCF): < 100
Remarks: Does not bioaccumulate.

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Partition coefficient: n-octanol/water : log Pow: 3,2
log Pow: 1,2 (20 °C)
pH: 7

sodium etasulfate

126-92-1:

Partition coefficient: n-octanol/water : log Pow: -0,248

12.4 Mobility in soil

Components:

2-phenoxyethanol

122-99-6:

Distribution among environmental compartments : Koc: 16 - 102
Remarks: Highly mobile in soils

2-(2-butoxyethoxy)ethanol

112-34-5:

Distribution among environmental compartments : Koc: ca. 50
Remarks: Highly mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

2-phenoxyethanol

122-99-6:

Assessment : Product does not contain substances which are very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.. Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. In accordance with local and national regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
Waste Code	European Waste Catalog 20 01 29* According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not regulated as a dangerous good

IATA

Not dangerous goods

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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according to Regulation (EC) No. 1907/2006, as amended



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For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : 112-34-5

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapor or gaseous form: Not applicable
: Organic Substances: : portionClass 1: 14,78 %
: Carcinogenic substances: Not applicable
: mutagenic: Not applicable
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Update: Percent volatile: 3,79 %

according to Detergents Regulation EC 648/2004 : <5% anionic surfactants, non-ionic surfactants, soap

15.2 Chemical Safety Assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.

Full text of other abbreviations

Acute Tox. : Acute toxicity

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according to Regulation (EC) No. 1907/2006, as amended



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Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
2006/15/EC	: Europe. Indicative occupational exposure limit values
2006/15/EC / TWA	: Limit Value - eight hours
2006/15/EC / STEL	: Short term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Eye Dam. 1

H318

Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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