

SAFETY DATA SHEET

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



LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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

1.1 Product identifier

Trade name : LINAX PLUS
UFI : 3SA5-P0H2-900J-DKND

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:
P264 Wash skin thoroughly after handling.
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.

LINUX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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)
tetrapotassium pyrophosphate	7320-34-5 230-785-7 01-2119489369-18	Eye Irrit. 2; H319	>= 5 - < 10
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6 603-096-00-8 01-2119475104-44	Eye Irrit. 2; H319	>= 5 - < 10
sodium p-cumenesulphonate	15763-76-5 239-854-6 01-2119489411-37	Eye Irrit. 2; H319	>= 5 - < 10
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	>= 3 - < 5

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

Alcohols, C12-14, ethoxylated (7 EO)	68439-50-9 500-213-3	1.394 mg/kg Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1 specific concentration limit Eye Dam. 1; H318 > 10 % Eye Irrit. 2; H319 > 1 - 10 %	>= 1 - < 2,5
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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.

Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

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

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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 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.

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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.

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
tetrapotassium pyrophosphate	Workers	Inhalation	Long-term systemic effects	2,79 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	0,68 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	> 70 mg/kg

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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
sodium p-cumenesulphonate	Consumers	Skin contact	Long-term systemic effects	3,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	13,2 mg/m3
	Consumers	Ingestion	Long-term systemic effects	3,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	6,6 mg/m3
	Consumers	Inhalation	Long-term local effects	0,048 mg/cm2
	Workers	Skin contact	Long-term systemic effects	7,6 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	53,6 mg/m3
2-phenoxyethanol	Workers	Inhalation	Long-term systemic effects	8,07 mg/m3
	Workers	Inhalation	Long-term local effects	8,07 mg/m3
	Workers	Skin contact	Long-term systemic effects	34,72 mg/kg
	Consumers	Inhalation	Long-term systemic effects, Long-term local	2,41 mg/m3

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

			effects	
	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

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

Substance name	Environmental Compartment	Value
tetrapotassium pyrophosphate	Fresh water	0,05 mg/l
	Sea water	0,005 mg/l
	STP	50 mg/l
	intermittent release	0,5 mg/l
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
	STP	200 mg/l
	intermittent release	11 mg/l
sodium p-cumenesulphonate	Fresh water	0,23 mg/l
	STP	100 mg/l

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

	intermittent release	2,3 mg/l
	Fresh water sediment	0,862 mg/kg
	Sea sediment	0,0862 mg/kg
	Soil	0,037 mg/kg
	Fresh water	0,1 mg/l
	intermittent release	1 mg/l
	Sea water	0,01 mg/l
	Fresh water sediment	0,372 mg/kg dry weight (d.w.)
	Sea sediment	0,0372 mg/kg dry weight (d.w.)
	Soil	0,016 mg/kg dry weight (d.w.)
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

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,

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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 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. 10,1, 100 % at 20 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Water solubility	: soluble

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapor pressure	: No data available
Density	: ca. 1,088 g/cm ³
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 : No data available

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

Not classified due to lack of data.

Product:

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

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

Components:

tetrapotassium pyrophosphate

7320-34-5:

- Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg
LD50 (Mouse): > 2.000 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 1,1 mg/l
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 7.940 mg/kg
LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

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

sodium p-cumenesulphonate

15763-76-5:

- Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): 5 mg/l
Exposure time: 232 min
LC50 (Rat): 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
LD50 (Rabbit): > 2.000 - 5.000 mg/kg

2-phenoxyethanol

122-99-6:

- Acute oral toxicity : LD50 Oral (Rat): 1.260 mg/kg
LD50 Oral (Mouse): 933 mg/kg
LD50 Oral (Rat, female): 1.850 mg/kg
Method: OECD Test Guideline 401

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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

Alcohols, C12-14, ethoxylated (7 EO)

68439-50-9:

Acute oral toxicity : LD50 Oral (Rat): 300 - 2.000 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

Skin corrosion/irritation

Not classified due to lack of data.

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

tetrapotassium pyrophosphate

7320-34-5:

Result : Mild skin irritation
Result : No skin irritation

sodium p-cumenesulphonate

15763-76-5:

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Remarks	:	Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

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

tetrapotassium pyrophosphate

7320-34-5:

Result	:	Eye irritation
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2-(2-butoxyethoxy)ethanol

112-34-5:

Result	:	Moderate eye irritation
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sodium p-cumenesulphonate

15763-76-5:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Moderate eye irritation
Remarks	:	Causes serious eye irritation.

2-phenoxyethanol

122-99-6:

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

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Product:

Remarks	:	No data available
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Components:

sodium p-cumenesulphonate

15763-76-5:

Test Type	:	Buehler Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

Result : Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Not classified due to lack of data.

Germ cell mutagenicity : Not Rated

Components:

sodium p-cumenesulphonate

15763-76-5:

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Remarks: negative

Alcohols, C12-14, ethoxylated (7 EO)

68439-50-9:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Carcinogenicity

Not classified due to lack of data.

Carcinogenicity : Not Rated

Components:

sodium p-cumenesulphonate

15763-76-5:

Species : Rat
Application Route : Dermal
Exposure time : 2 Years
Activity duration : 5 h
Method : OECD Test Guideline 453
Result : no increase in tumors observed
Remarks : Information taken from reference works and the literature.

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Not classified due to lack of data.

Reproductive toxicity : Not Rated

STOT-single exposure

Not classified due to lack of data.

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

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

Components:

sodium p-cumenesulphonate

15763-76-5:

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

2-phenoxyethanol

122-99-6:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified due to lack of data.

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

Components:

sodium p-cumenesulphonate

15763-76-5:

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

Repeated dose toxicity

Components:

sodium p-cumenesulphonate

15763-76-5:

Species : Rat
NOAEL : 763 mg/kg
Application Route : Oral
Target Organs : Cardio-vascular system

Species : Mouse
NOAEL : 440 mg/kg
LOAEL : 1.300 mg/kg
Application Route : Dermal
Method : OECD Test Guideline 411
Target Organs : Skin

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

SAFETY DATA SHEET

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



LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

Exposure time : 90 d
Method : OECD Test Guideline 411
Remarks : Subchronic toxicity

Aspiration toxicity

Not classified due to lack of data.

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:

tetrapotassium pyrophosphate

7320-34-5:

Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): > 750 mg/l
Exposure time: 48 h

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 : > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC : > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : 100 mg/l
Exposure time: 96 h

SAFETY DATA SHEET

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



LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

Species: *Oncorhynchus mykiss* (rainbow trout)
Method: OECD Test Guideline 203

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
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

sodium p-cumenesulphonate

15763-76-5:

- Toxicity to fish : LC50 (*Cyprinus carpio* (Carp)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
LC50 (*Danio rerio* (zebra fish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l
Exposure time: 96 h
Test Type: static test

SAFETY DATA SHEET

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



LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

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
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

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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)

Alcohols, C12-14, ethoxylated (7 EO), Alcohols, C12-14. ethoxylated

68439-50-9:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203

LC50 (Fish): > 1 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 1 - 10 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 0,1 - 1 mg/l
Exposure time: 72 h
Test Type: static test

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Bacteria): 140 mg/l

Toxicity to soil dwelling organisms : 220 mg/kg
Species: Eisenia fetida (earthworms)

Plant toxicity : 10 mg/l
Species: Lepidium sativum (cress)
Method: see user defined free text

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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:

tetrapotassium pyrophosphate

7320-34-5:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

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

sodium p-cumenesulphonate

15763-76-5:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD 301 B

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 %

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

Exposure time: 15 d
Method: OECD 301 A
GLP: yes

Alcohols, C12-14, ethoxylated (7 EO), Alcohols, C12-14. ethoxylated

68439-50-9:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD 301 A

Result: rapidly biodegradable
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD 301 B

12.3 Bioaccumulative potential

Components:

tetrapotassium pyrophosphate

7320-34-5:

Bioaccumulation : Remarks: Does not bioaccumulate.

2-(2-butoxyethoxy)ethanol

112-34-5:

Bioaccumulation : Bioconcentration factor (BCF): 2

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

sodium p-cumenesulphonate

15763-76-5:

Bioaccumulation : Bioconcentration factor (BCF): 3,16
Remarks: Bioaccumulation is unlikely.

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

12.4 Mobility in soil

Components:

2-(2-butoxyethoxy)ethanol

112-34-5:

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

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

sodium p-cumenesulphonate

15763-76-5:

Distribution among environmental compartments : Koc: 1,25
Method: Calculation method
Remarks: Information taken from reference works and the literature.

Stability in soil : Remarks: Not expected to adsorb on soil.

2-phenoxyethanol

122-99-6:

Distribution among environmental compartments : Koc: 16 - 102
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:

sodium p-cumenesulphonate

15763-76-5:

Assessment : Not persistent, bioaccumulative, and toxic (PBT).. Not very persistent and very bioaccumulative (vPvB).

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.

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.

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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.

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

LINAX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

SECTION 15: Regulatory information

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

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

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

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: 4,5 %
: 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: < 0,01 %

according to Detergents Regulation EC 648/2004 : 5 - <15% phosphates, <5% non-ionic surfactants

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.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
STOT SE : Specific target organ toxicity - single exposure

SAFETY DATA SHEET

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



LINUX PLUS

WM 0716330

Order number: 0716330

Version 7.3

Revision Date 15.07.2026

Print Date 16.07.2026

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; AIIIC - 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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