



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

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

1.1 Product identifier

Trade name : LINAX PLUS 10 L
Identification number : 61607

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 : +4961319642414
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone number

+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : P102 Keep out of reach of children.

Prevention:
P264
P280

Wash skin thoroughly after handling.
Wear protective gloves/ eye protection/ face protection.



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

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.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous surfactant solution.

Hazardous components

Chemical name	CAS-No. EC-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 01-2119475104-44	Eye Irrit. 2; H319	>= 5 - < 10
sodium p-cumenesulphonate	15763-76-5 239-854-6 01-2119489411-37	Eye Dam. 2; H319	>= 5 - < 10
2-phenoxyethanol	122-99-6 204-589-7 01-2119488943-21	Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 2 - < 5



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

Alcohols, C12-14, ethoxylated (7 EO)	68439-50-9 932-106-6	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412 SCL > 10 % 1; H318 > 1 - 10 % 2; H319	>= 2 - < 2,5
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this 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 : Protect unharmed eye.
If easy to do, remove contact lens, if worn.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.
- 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 : 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.



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

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 firefighting : 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 firefighters : 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 materials for containment and cleaning up

Methods for cleaning up : Neutralise 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



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

application area.

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. Store at room temperature in the original container.

Other data : 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

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
2-(2-butoxyethoxy) ethanol	112-34-5	TWA	10 ppm 67,5 mg/m ³	2009-12-19	2006/15/EC
Further information	:	Indicative			
2-(2-butoxyethoxy) ethanol	112-34-5	STEL	15 ppm 101,2 mg/m ³	2009-12-19	2006/15/EC
Further information	:	Indicative			

DNEL

tetrapotassium pyrophosphate
7320-34-5: : End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 2,79 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 0,68 mg/m³



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: > 70 mg/kg

2-(2-butoxyethoxy)ethanol : End Use: Workers
112-34-5: Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 101,2 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 67,5 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 20 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 67,5 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 50,6 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 1,25 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 34 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 10 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 34 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 14 ppm



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 10 ppm

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 10 ppm

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 7,5 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 5 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 1,3 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 5 mg/m³

sodium p-cumenesulphonate : End Use: Workers
15763-76-5: Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 7,6 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 53,6 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 3,8 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 13,2 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 3,8 mg/kg



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

2-phenoxyethanol
122-99-6:

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 8,07 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 8,07 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 34,72 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 2,41 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 2,41 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 20,83 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 17,43 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Acute systemic effects
Value: 17,43 mg/kg

PNEC

tetrapotassium
pyrophosphate
7320-34-5:

: Fresh water
Value: 0,05 mg/l

Marine water
Value: 0,005 mg/l

STP
Value: 50 mg/l

intermittent release
Value: 0,5 mg/l



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

2-(2-butoxyethoxy)ethanol 112-34-5:	:	Fresh water Value: 1,1 mg/l
		Marine water Value: 0,11 mg/l
		Fresh water sediment Value: 4,4 mg/kg
		Marine sediment Value: 0,44 mg/kg
		Soil Value: 0,32 mg/kg
		STP Value: 200 mg/l
		Fresh water sediment Value: 4 mg/l
		Marine sediment Value: 0,4 mg/l
		Soil Value: 0,4 mg/l
	sodium p-cumenesulphonate 15763-76-5:	:
		STP Value: 100 mg/l
		intermittent release Value: 2,3 mg/l
2-phenoxyethanol 122-99-6:	:	Fresh water Value: 0,943 mg/l
		Marine water Value: 0,0943 mg/l
		intermittent release Value: 3,44 mg/l
		STP Value: 24,8 mg/l
		Fresh water sediment Value: 7,2366 mg/kg
		Marine sediment Value: 0,7237 mg/kg



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

Soil
Value: 1,26 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : If splashes are likely to occur, wear:
Tightly fitting safety goggles

Hand protection

Material : For prolonged or repeated contact use protective gloves.
Chemical resistant gloves made of butyl rubber or nitrile rubber
category III according to EN 374-1: 2003 (0,4 mm).

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

Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : No data available

pH : ca. 10,1

Melting point/range : No data available

Boiling point/boiling range : No information available.

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 1,088 g/cm ³
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: 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



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

Hazardous decomposition products : No hazardous decomposition products are known.
Other information : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

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

Skin corrosion/irritation : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation : Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation : No data available

Further information : No data available

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

Skin corrosion/irritation : Result: Mild skin irritation
Result: No skin irritation

Serious eye damage/eye irritation : Result: Eye irritation

2-(2-butoxyethoxy)ethanol 112-34-5:



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

Acute oral toxicity : LD50 Rat: 3.384 mg/kg
LD50 Rat: > 2.000 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 2.700 mg/kg
LD50 Rabbit: > 2.000 mg/kg

sodium p-cumenesulphonate **15763-76-5:**

Acute oral toxicity : LD50 Oral Rat: > 2.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 Rat: 5 mg/l
Exposure time: 232 min

Acute dermal toxicity : LD50 Dermal Rabbit: > 2.000 mg/kg

Skin corrosion/irritation : Species: Rabbit
Result: Mild skin irritation
Method: OECD Test Guideline 404
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation : Species: Rabbit
Result: Moderate eye irritation
Method: OECD Test Guideline 405
Causes serious eye irritation.

Respiratory or skin sensitisation : Test Method: Buehler Test
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406

Germ cell mutagenicity

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Result: negative

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

Teratogenicity : Species: Rat
Application Route: Oral
3.000 mg/kg
3.000 mg/kg

Repeated dose toxicity : Rat: NOAEL: 763 mg/kg



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

Application Route: Oral
Target Organs: Cardio-vascular system

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:

Acute oral toxicity : LD50 Oral Rat: 1.260 mg/kg
LD50 Oral Mouse: 933 mg/kg
LD50 Oral Rat: 1.850 mg/kg
Acute toxicity estimate : 500 mg/kg
Method: Converted acute toxicity point estimate
LD50 Rat: 2.740 mg/kg
Method: Calculation method
Acute dermal toxicity : LD50 Dermal Rabbit: > 5.000 mg/kg
LD50 Rat: 14.422 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
Germ cell mutagenicity
Genotoxicity in vitro : Type: Ames test
Result: negative
Reproductive toxicity : Species: Rat
NOAEL: > 250 mg/kg,
F1: > 250 mg/kg,
F2: > 250 mg/kg
Teratogenicity : Species: Rat
Application Route: Oral
>50 mg/kg



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

> 50 mg/kg

Species: Rat
Application Route: Dermal
>250 mg/kg
> 250 mg/kg

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 : 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 bacteria : (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
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



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

Method: DIN 38412

EC50 (*Daphnia magna* (Water flea)): > 100 mg/l
Exposure time: 48 h

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

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

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

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 : 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

Toxicity to bacteria : 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

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

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



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

- Toxicity to bacteria : EC50 (*Pseudomonas putida*): 880 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
- Toxicity to fish (Chronic toxicity) : NOEC: 23 mg/l
Exposure time: 34 d
Species: *Pimephales promelas* (fathead minnow)
- 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) 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 : 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 bacteria : 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)



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

Method: see user defined free text

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

sodium p-cumenesulphonate 15763-76-5:

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

Alcohols, C12-14, ethoxylated (7 EO) 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



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

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 : Remarks: Bioaccumulation is unlikely.

2-phenoxyethanol

122-99-6:

Bioaccumulation : Bioconcentration factor (BCF): 2

Partition coefficient: n-
octanol/water : log Pow: 1,2 (23 °C)
pH: 5 - 9
GLP: yes

12.4 Mobility in soil

Components:

2-(2-butoxyethoxy)ethanol

112-34-5:

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

sodium p-cumenesulphonate

15763-76-5:

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

2-phenoxyethanol

122-99-6:

Distribution among
environmental compartments : Koc: 16 - 102Remarks: 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..

12.6 Other adverse effects

Product:

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



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

Print Date 16.07.2018

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. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
Waste Code	European Waste Catalogue 200129 According to the European Waste Catalogue, 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

ADR
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

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



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

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IMDG

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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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

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

: Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapour or gaseous form: Not applicable
: Organic Substances: Not applicable
: Carcinogenic substances: Not applicable
: Mutagenic: Not applicable
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Percent volatile: 5,4 %
334,7 g/l
VOC content excluding water

Volatile organic compounds (VOC) content : Percent volatile: 5,4 %
58,75 g/l
VOC content valid only for coating materials used on wood surfaces

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

GISBAU (D) : GG 50

15.2 Chemical safety assessment

There is no data available for this product.



LINAX PLUS 10 L

WM 1303685

Order number: 1103685

Version 4.1

Revision Date 28.06.2018

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SECTION 16: Other information

Full text of H-Statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Further information

Classification procedure: H319 Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 Standardisation; 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 Organisation for Standardization; KECl - 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, Authorisation 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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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LINAX PLUS 10 L

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