LINAX AMONIA

WM 1204744 **Order number: 0404744**

Version 7.1 Revision Date 21.01.2026 Print Date 11.03.2026

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

1.1 Product identifier

Trade name	:	LINAX AMONIA
UFI	:	FJ49-30GQ-H00H-YY4W

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)

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

2.2 Label elements

Labeling (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	Wash hands 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.

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

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-(2-butoxyethoxy)ethanol	112-34-5 203-961-6 603-096-00-8 01-2119475104-44	Eye Irrit. 2; H319	>= 5 - < 10
tetrapotassium pyrophosphate	7320-34-5 230-785-7 01-2119489369-18	Eye Irrit. 2; H319	>= 3 - < 5
1-phenoxypropan-2-ol	770-35-4 212-222-7 01-2119486566-23	Eye Irrit. 2; H319	>= 3 - < 5
sodium p-cumenesulphonate	15763-76-5 239-854-6 01-2119489411-37	Eye Irrit. 2; H319	>= 3 - < 5
Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated	78330-20-8 02-2119549526-31	Eye Dam. 1; H318 Acute Tox. 4; H302 --- specific concentration limit Eye Irrit. 2; H319 1 - 10 % Eye Dam. 1; H318 > 10 %	>= 1 - < 3
ammonia, aqueous solution	1336-21-6 215-647-6 007-001-01-2	Skin Corr. 1B; H314 Aquatic Acute 1; H400 STOT SE 3; H335	>= 0,1 - < 0,25

		Aquatic Chronic 2; H411 Eye Dam. 1; H318 --- M-Factor (Acute aquatic toxicity): 1 --- specific concentration limit Aquatic Chronic 2; H411 >= 25 % STOT SE 3; H335 >= 5 % STOT SE 3; H335 5 - < 25 % Skin Corr. 1B; H314 5 - < 25 % Aquatic Chronic 3; H412 2,5 - < 5 % Skin Irrit. 2; H315 1 - < 2,5 %	

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 : 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.

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

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

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.

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

Hazardous combustion products : No hazardous combustion products are known

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.

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.

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/m3	2006/15/EC
	Further information: Indicative			
		STEL	15 ppm 101,2 mg/m3	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-(2-butoxyethoxy)ethanol	Workers	Inhalation	Long-term systemic effects	67,5 mg/m3

	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
tetrapotassium pyrophosphate	Workers	Inhalation	Long-term systemic effects	2,79 mg/m3
	Consumers	Inhalation	Long-term systemic effects	0,68 mg/m3
	Consumers	Ingestion	Long-term systemic effects	> 70 mg/kg
1-phenoxypropan-2-ol	Workers	Skin contact	Long-term systemic effects	42 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	25,7 mg/m3
	Consumers	Skin contact	Long-term systemic effects	21 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,65 mg/kg bw/day
	Consumers	Inhalation	Long-term exposure, Systemic effects	12,7 mg/m3
sodium p-cumenesulphonate	Workers	Skin contact	Long-term systemic effects	191 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	37,4 mg/m3
	Consumers	Skin contact	Long-term systemic effects	3,8 mg/kg
	Consumers	Inhalation	Long-term systemic	13,2 mg/m3

			effects	
	Consumers	Ingestion	Long-term systemic effects	3,8 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	136,25 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	26,9 mg/m3
	Workers	Skin contact	Long-term local effects	0,096 mg/cm2
	Consumers	Skin contact	Long-term systemic effects	68,1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	6,6 mg/m3
	Consumers	Inhalation	Long-term local effects	0,048 mg/cm2
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	Workers	Inhalation	Acute systemic effects	40 mg/m3
	Workers	Inhalation	Acute local effects	40 mg/m3
	Workers	Inhalation	Long-term systemic effects	40 mg/m3
	Workers	Inhalation	Long-term local effects	4 mg/m3
	Consumers	Inhalation	Acute local effects	20 mg/m3
	Consumers	Inhalation	Acute systemic effects	20 mg/m3
	Consumers	Inhalation	Long-term systemic effects	20 mg/m3
	Consumers	Inhalation	Long-term local effects	2 mg/m3
	Consumers	Ingestion	Acute systemic effects	85 mg/kg
	Consumers	Ingestion	Long-term systemic effects	17 mg/kg
ammonia, aqueous solution, ammonia, aqueous solution (Solution)	Workers	Inhalation	Acute local effects	36 mg/m3
	Workers	Inhalation	Long-term local effects	14 mg/m3
	Workers	Inhalation	Acute systemic effects, Long-term systemic	47,6 mg/m3

			effects	
	Consumers	Inhalation	Acute local effects	7,2 mg/m3
	Consumers	Inhalation	Long-term local effects	2,8 mg/m3
	Consumers	Inhalation	Acute systemic effects, Long-term systemic effects	23,8 mg/m3
	Workers	Skin contact	Long-term systemic effects, Acute systemic effects	6,8 mg/kg
	Consumers	Ingestion	Acute systemic effects, Long-term systemic effects	6,8 mg/kg
	Consumers	Skin contact	Long-term systemic effects, Acute systemic effects	68 mg/kg

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

Substance name	Environmental Compartment	Value
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
tetrapotassium pyrophosphate	Fresh water	0,05 mg/l
	Sea water	0,005 mg/l
	STP	50 mg/l
	intermittent release	0,5 mg/l
1-phenoxypropan-2-ol	Fresh water	0,1 mg/l
	Sea water	0,01 mg/l
	Fresh water sediment	0,38 mg/kg
	Sea sediment	0,038 mg/kg
	Soil	0,02 mg/kg

	STP	10 mg/l
	intermittent release	1 mg/l
sodium p-cumenesulphonate	STP	100 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.)
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	Fresh water	2 mg/l
	Sea water	0,2 mg/l
	Fresh water sediment	24 mg/kg
	Soil	2,5 mg/kg
	STP	100 mg/l
	intermittent release	1 mg/l
ammonia, aqueous solution, ammonia, aqueous solution (Solution)	Fresh water	0,0011 mg/l
	Sea water	0,0011 mg/l
	intermittent release	0,0068 mg/l
	intermittent release	0,089 mg/l

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 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	:	ammoniacal
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. 11,3, 1 %
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. 1,053 g/cm3
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

Components:

2-(2-butoxyethoxy)ethanol

112-34-5:

Acute oral toxicity	:	LD50 (Rat): 3.384 mg/kg 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): 2.700 mg/kg LD50 (Rabbit): > 2.000 mg/kg

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

1-phenoxypropan-2-ol

770-35-4:

Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 5,4 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	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

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated

78330-20-8:

Acute oral toxicity	:	LD50 Oral (Rat): 500 - 2.000 mg/kg LD50 Oral (Rat): > 300 - 2.000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 Dermal (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402

ammonia, aqueous solution

1336-21-6:

Acute oral toxicity	:	LD50 Oral (Rat, male): 350 mg/kg see user defined free text (Cat): 750 mg/kg see user defined free text (Humans): 43 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male): 9,85 mg/l LC50 (Rat, female): 13,77 mg/l see user defined free text (Humans): 5000 ppm

Skin corrosion/irritation

Not classified due to lack of data.

Product:

Remarks	:	According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Components:

tetrapotassium pyrophosphate

7320-34-5:

Result	:	Mild skin irritation
Result	:	No skin irritation

sodium p-cumenesulphonate

15763-76-5:

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

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated

78330-20-8:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

ammonia, aqueous solution

1336-21-6:

Result	:	Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks	:	Causes serious eye irritation.

Components:

tetrapotassium pyrophosphate

7320-34-5:

Result	:	Eye irritation

1-phenoxypropan-2-ol

770-35-4:

Result	:	Eye irritation

sodium p-cumenesulphonate

15763-76-5:

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

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated

78330-20-8:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

ammonia, aqueous solution

1336-21-6:

Result	:	Corrosive

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

Components:

sodium p-cumenesulphonate

15763-76-5:

Test Type	:	Buehler Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitization on laboratory animals.

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated

78330-20-8:

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

ammonia, aqueous solution

1336-21-6:

Genotoxicity in vitro : Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay
Remarks: In vivo tests did not show any chromosomal changes.

Test Type: In vivo micronucleus test
Species: Mouse
Method: Mutagenicity (micronucleus test)
Remarks: In vivo tests did not show any chromosomal changes.

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.

ammonia, aqueous solution

1336-21-6:

Species	:	Rat
Application Route	:	Oral
Method	:	see user defined free text

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.

Components:

sodium p-cumenesulphonate

15763-76-5:

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

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.

ammonia, aqueous solution

1336-21-6:

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

ammonia, aqueous solution

1336-21-6:

Species	:	Rat
	:	68 mg/kg
Application Route	:	Oral
Exposure time	:	35 d
Method	:	OECD 422
Species	:	Rat, males
NOAEL	:	35 mg/kg
Application Route	:	Inhalation
Exposure time	:	50 d

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:

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)): > 100 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

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

1-phenoxypropan-2-ol

770-35-4:

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 220 - 460 mg/l Exposure time: 96 h LC50 (Pimephales promelas (fathead minnow)): 280 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 370 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 Test Type: static test EC50 (Desmodesmus subspicatus (green algae)): 74,5 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Bacteria): > 1.000 mg/l Exposure time: 17 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 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 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

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated, Alcohols, C9-11-iso-, C10-rich, ethoxylated

78330-20-8:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 10 - 100 mg/l
Exposure time: 96 h
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 10 - 100 mg/l
Exposure time: 48 h
Method: DIN 38412

NOEC (Daphnia magna (Water flea)): 12,5 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 10 - 100 mg/l
Method: see user defined free text

EC50 (Scenedesmus subspicatus): > 10 - 100 mg/l
Method: see user defined free text

Toxicity to microorganisms : EC10 (activated sludge): 48 mg/l
Exposure time: 17 h
Method: DIN 38412

ammonia, aqueous solution, ammonia, aqueous solution (Solution)

1336-21-6:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,53 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 0,75 - 3,4 mg/l
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,89 mg/l
Exposure time: 96 h

NOEC (Oncorhynchus mykiss (rainbow trout)): 0,022 mg/l
Exposure time: 73 d
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 24 mg/l
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): 101 mg/l
Exposure time: 48 h

NOEC (Daphnia magna (Water flea)): 0,79 mg/l
Exposure time: 96 d
Test Type: flow-through test

Toxicity to algae/aquatic plants	:	(Chlorella vulgaris (Fresh water algae)): 2.700 mg/l Exposure time: 18 d Test substance: see user defined free text
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to microorganisms	:	EC50 (Photobacterium phosphoreum): 2 mg/l Exposure time: 5 min
Toxicity to fish (Chronic toxicity)	:	Lowest Observed Effect Concentration: 0,022 mg/l Exposure time: 73 d Species: Oncorhynchus mykiss (rainbow trout) Test substance: see user defined free text
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,79 mg/l Exposure time: 96 d Species: Daphnia magna (Water flea) Test substance: 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:

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

tetrapotassium pyrophosphate

7320-34-5:

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

1-phenoxypropan-2-ol

770-35-4:

Biodegradability	:	Biodegradation: 72 % Exposure time: 28 d Method: OECD 301 F

sodium p-cumenesulphonate

15763-76-5:

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

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated, Alcohols, C9-11-iso-, C10-rich, ethoxylated

78330-20-8:

Biodegradability	:	Biodegradation: > 90 % Method: OECD 301 E Result: rapidly biodegradable Biodegradation: > 60 % Exposure time: 28 d Method: OECD 301 B
Biochemical Oxygen Demand (BOD)	:	1.650 mg/g Incubation time: 30 d
Chemical Oxygen Demand (COD)	:	2.500 mg/g

ammonia, aqueous solution, ammonia, aqueous solution (Solution)

1336-21-6:

Biodegradability	:	Result: rapidly biodegradable

12.3 Bioaccumulative potential

Components:

2-(2-butoxyethoxy)ethanol

112-34-5:

Bioaccumulation	:	Bioconcentration factor (BCF): 2
Partition coefficient: n-octanol/water	:	log Pow: 0,56

tetrapotassium pyrophosphate

7320-34-5:

Bioaccumulation	:	Remarks: Does not bioaccumulate.

1-phenoxypropan-2-ol

770-35-4:

Bioaccumulation	:	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

sodium p-cumenesulphonate

15763-76-5:

Bioaccumulation	:	Bioconcentration factor (BCF): 3,16

Remarks: Bioaccumulation is unlikely.

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated, Alcohols, C9-11-iso-, C10-rich, ethoxylated

78330-20-8:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

ammonia, aqueous solution, ammonia, aqueous solution (Solution)

1336-21-6:

Partition coefficient: n-octanol/water : log Pow: -1,38
Remarks: see user defined free text

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

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.

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).

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. 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.

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
	:	Directive 96/82/EC does not apply
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: < 0,01 %
	:	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: 0,25 %
according to Detergents Regulation EC 648/2004	:	<5% phosphates, anionic surfactants, non-ionic surfactants, perfumes, LIMONENE

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.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H335	:	May cause respiratory irritation.
H400	:	Very toxic to aquatic life.

H411	:	Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Corr.	:	Skin corrosion
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:		**Classification procedure:**
Eye Irrit. 2	H319	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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