

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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NOWA TANIN 10L

WM 1303973

Order number: 0403973

Version 9.3

Revision Date 05.02.2021

Print Date 24.09.2021

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

1.1 Product identifier

Trade name : NOWA TANIN 10L
Identification number : 61430

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

112
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342
+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Category 1A	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements

: P102 Keep out of reach of children.
Prevention:
P260 Do not breathe spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

potassium hydroxide
Reaction product of Maleic
anhydride, 2-Ethylhexylamine
and Triethanolamine

Safety data sheet available on request.

2.3 Other hazards

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)

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potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33	Acute Tox. 4; H302 Skin Corr. 1A; H314 Met. Corr. 1; H290 SCL ≥ 5 % 1A; H314 2 - < 5 % 1B; H314 0,5 - < 2 % 2; H315 0,5 - < 2 % 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 Irrit. 2; H319	≥ 2 - < 5
Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine	1471311-93-9 939-488-3 01-2119980932-27	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	≥ 2 - < 3

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.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- 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 induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

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Symptoms : corrosive effects
Allergic reactions

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.

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.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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).

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Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol. Avoid contact with skin and eyes. For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray.
- 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.
- 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/m3	2006-02-09	2006/15/EC
Further information	:	Indicative			
2-(2-butoxyethoxy) ethanol	112-34-5	STEL	15 ppm 101,2 mg/m3	2006-02-09	2006/15/EC
Further information	:	Indicative			

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DNEL

potassium hydroxide
1310-58-3:

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 1 mg/m3

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 1 mg/m3

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

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

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

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 101,2 mg/m3

End Use: Workers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 83 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 40,5 mg/m3

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 40,5 mg/m3

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 60,7 mg/m3

End Use: Consumers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 50 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects

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Value: 5 mg/kg

sodium p-cumenesulphonate
15763-76-5:

: End Use: Workers
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 bw/day

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 136,25 mg/kg bw/day

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 26,9 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term local effects
Value: 0,096 mg/cm²

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 68,1 mg/kg bw/day

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

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 0,048 mg/cm²

Reaction product of Maleic

: End Use: Workers

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**anhydride, 2-Ethylhexylamine
and Triethanolamine
1471311-93-9:**

Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 43,21 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 24,5 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 12,78 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 14,7 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 14,7 mg/kg

PNEC

**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

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

: Fresh water
Value: 0,23 mg/l

STP
Value: 100 mg/l

intermittent release
Value: 2,3 mg/l

Marine water
Value: 0,023 mg/l

Fresh water sediment
Value: 0,862 mg/kg

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Marine sediment
Value: 0,0862 mg/kg

Soil
Value: 0,037 mg/kg

Reaction product of Maleic
anhydride, 2-Ethylhexylamine
and Triethanolamine
1471311-93-9: Fresh water
Value: 0,1 mg/l

Marine water
Value: 0,01 mg/l

intermittent release
Value: 1 mg/l

STP
Value: 100 mg/l

Fresh water sediment
Value: 4,85 mg/kg

Marine sediment
Value: 0,485 mg/kg

Soil
Value: 0,909 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber
category III according to EN 374.

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 : Choose body protection according to the amount and concentration
of the dangerous substance at the work place.
Remove and wash contaminated clothing before re-use.

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
ABEK-P3-filter

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless, light brown
Odour	: characteristic
Odour Threshold	: No data available
pH	: ca. 13,7
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
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. 1,081 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

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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

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

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.

Product

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

Skin corrosion/irritation : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation : Causes sensitisation.

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

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- STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aspiration toxicity : Not Rated
- Further information : No data available

Components: **potassium hydroxide** **1310-58-3:**

- Acute oral toxicity : LD50 Rat: 273 mg/kg
- Acute toxicity estimate : 500,0 mg/kg
Method: Converted acute toxicity point estimate
- LD50 Oral Rat, male: 333 mg/kg
Method: OECD Test Guideline 425
- Skin corrosion/irritation : Result: Corrosive
- Serious eye damage/eye irritation : Species: Rabbit
Result: Corrosive
Method: OECD Test Guideline 405
- Respiratory or skin sensitisation : Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
- Germ cell mutagenicity
- Genotoxicity in vitro : Type: Ames test
Test species: Salmonella typhimurium
Result: negative

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

- 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

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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
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 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

Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine

1471311-93-9:

Acute oral toxicity	: LD50 : > 2.000 mg/kg
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Method: Calculation method

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg

SECTION 12: Ecological information

12.1 Toxicity

Components:

potassium hydroxide
1310-58-3:

Toxicity to fish : (Pimephales promelas (fathead minnow)): 880 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l
Exposure time: 96 h

LC50 (Poecilia reticulata (guppy)): 165 mg/l
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 660 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 : 1.337 mg/l
Exposure time: 120 h

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 22 mg/l
Exposure time: 15 min

Toxicity to soil dwelling organisms : LC50: 850 mg/kg
Exposure time: 90 d

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): > 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

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EC10 (activated sludge): > 1.995 mg/l

Exposure time: 30 min

Test Type: Respiration inhibition

Method: OECD Test Guideline 209

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

Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine

1471311-93-9:

Toxicity to fish

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

Exposure time: 96 h

Toxicity to daphnia and other
aquatic invertebrates

: (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae

: (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l

Exposure time: 72 h

Toxicity to bacteria

: EC10 (Pseudomonas putida): > 1.000 mg/l

Exposure time: 16 h

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

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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

Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine

1471311-93-9:

Biodegradability : Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD 301 A

12.3 Bioaccumulative potential

Components:

potassium hydroxide

1310-58-3:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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.

12.4 Mobility in soil

Components:

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2-(2-butoxyethoxy)ethanol

112-34-5:

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

sodium p-cumenesulphonate

15763-76-5:

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

12.5 Results of PBT and vPvB assessment

Components:

potassium hydroxide

1310-58-3:

Assessment : This substance is not considered to be very persistent and very
bioaccumulating (vPvB).. This substance is not considered to be
persistent, bioaccumulating and toxic (PBT)..

12.6 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.

SECTION 14: Transport information

14.1 UN number

ADR : 3267
IMDG : 3267
IATA : 3267

14.2 Proper shipping name

ADR : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(potassium hydroxide)

IMDG : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(potassium hydroxide)

IATA : Corrosive liquid, basic, organic, n.o.s. Not permitted for transport

14.3 Transport hazard class

ADR : 8
IMDG : 8
IATA : 8

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14.4 Packing group

ADR

Classification Code : C7
Packaging group : III
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG

Packaging group : III
Labels : 8
EmS Number : F-A, S-B

IATA

(Cargo) : Corrosive liquid, basic, organic, n.o.s. Not permitted for transport
Packaging group : III
Labels : 8

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country 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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations 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, preparations and articles (Annex XVII) : BUTOXYDIGLYCOL

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

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according to Regulation (EC) No. 1907/2006

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dangerous substances. TA Luft List (Germany)	: 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	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Update: Not applicable
according to Detergents Regulation EC 648/2004	: <5% Anionic surfactants, Non-ionic surfactants
GISBAU (D)	: GG 80

15.2 Chemical safety assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H290	Calculation method
	H314	On basis of test data.
	H318	On basis of test data.
	H317	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

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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; 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, 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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