



Werner & Mertz  
Professional

## NOWA TANIN 10 L

WM 1203973

Order number: 0403973

Version 7.0

Revision Date 28.06.2017

Print Date 25.09.2017

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

#### 1.1 Product identifier

Trade name : NOWA TANIN 10 L  
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

+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)

Hazard pictograms :





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Signal word	:	Danger	
Hazard statements	:	H290 H314 H317	May be corrosive to metals. Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Precautionary statements	:	P102 <b>Prevention:</b> P260 P280 <b>Response:</b> 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 or shower. 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 <b>Disposal:</b> P501	Keep out of reach of children. Do not breathe spray. Wear protective gloves/ protective clothing/ eye protection/ face protection. Immediately call a POISON CENTER or doctor/ physician. 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

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)



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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 Dam. 2; H319	≥ 2 - < 5
Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine	939-488-3 01-2119980932-27	Skin Corr. 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.



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### **4.2 Most important symptoms and effects, both acute and delayed**

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.

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

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

### **5.2 Special hazards arising from the substance or mixture**

Specific hazards during 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.

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## **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**



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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 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/m <sup>3</sup>	2009-12-19	2006/15/EC
Further information	:	Indicative			



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2-(2-butoxyethoxy)ethanol	112-34-5	STEL	15 ppm 101,2 mg/m3	2009-12-19	2006/15/EC
Further information	:	Indicative			

### 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: 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

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

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

End Use: Consumers  
Exposure routes: Skin contact



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Potential health effects: Long-term systemic effects

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 34 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 14 ppm

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/m<sup>3</sup>

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 5 mg/m<sup>3</sup>

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

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 53,6 mg/m<sup>3</sup>

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

End Use: Consumers

Exposure routes: Inhalation



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Reaction product of Maleic  
anhydride, 2-Ethylhexylamine  
and Triethanolamine  
:

Potential health effects: Long-term systemic effects  
Value: 13,2 mg/m<sup>3</sup>

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

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 43,21 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 12,78 mg/m<sup>3</sup>

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

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

### 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

Fresh water sediment  
Value: 4 mg/l

Marine sediment  
Value: 0,4 mg/l





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	Soil Value: 0,4 mg/l
<b>sodium p-cumenesulphonate 15763-76-5:</b>	: Fresh water Value: 0,23 mg/l
	STP Value: 100 mg/l
	intermittent release Value: 2,3 mg/l
<b>Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine</b> :	: 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 (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 : 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.



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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.

## 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
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 <sup>3</sup>
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



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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.
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### 10.4 Conditions to avoid

Conditions to avoid	: No data available
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### 10.5 Incompatible materials

Materials to avoid	: No data available
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### 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

#### 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.
Further information	: No data available



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### Components:

#### **potassium hydroxide**

##### **1310-58-3:**

Acute oral toxicity : LD50 Rat: 273 mg/kg

Acute toxicity estimate : 500 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**

##### **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



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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

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

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



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### 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 (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:**



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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

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

##### 112-34-5:

Biodegradability	: Result: Readily biodegradable Biodegradation: 76 % Exposure time: 28 d
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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

### Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine :

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:

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

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

#### sodium p-cumenesulphonate





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**15763-76-5:**

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:**

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.  
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  
20 01 29\*  
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 : 3267  
IMDG : 3267  
IATA : 3267

### 14.2 Proper shipping name

ADR : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.



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(potassium hydroxide)  
**IMDG** : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
(potassium hydroxide)  
**IATA** : Corrosive liquid, basic, organic, n.o.s.  
(potassium hydroxide)

### 14.3 Transport hazard class

**ADR** : 8  
**IMDG** : 8  
**IATA** : 8

### 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**  
Packing instruction (cargo aircraft) : 856  
Packing instruction (LQ) : Y841  
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

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

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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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	: Percent volatile: 5 % 476,42 g/l VOC content excluding water
Volatile organic compounds (VOC) content	: Percent volatile: 5 % 54,05 g/l VOC content valid only for coating materials used on wood surfaces
according to Detergents Regulation EC 648/2004	: <5% Anionic surfactants, Non-ionic surfactants
Diğer kurallar	: 13 Aralık 2014 tarihli, 29204 sayılı, "T.C. Çevre ve Şehircilik Bakanlığı Zararlı Maddeler ve Karışımlara İlişkin Güvenlik Bilgi Formları Hakkında Yönetmeliği" ne uygun düzenlenmiştir. 26 Aralık 2008 27092 (mükerrer) sayılı Tehlikeli Maddelerin ve Müstahzarların Sınıflandırılması, Ambalajlanması ve Etiketlenmesi Hakkında Yönetmelik hükümlerine göre hazırlanmıştır. Maddelerin ve Karışımların Sınıflandırılması, Etiketlenmesi ve Ambalajlanması Hakkında Yönetmelik. 11 Aralık 2013 tarihli, 28848 mükerrer sayılı, T.C. Çevre ve Şehircilik Bakanlığı.

### 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

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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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; 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; 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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