

# Safety data sheet

compliant with Regulation (EC) No 1907/2006 (REACH)

# Metaflux®

**Product Trade Name:** TECHNOFLUX 75-40 Universal-U-Super  
**Updated:** 02.03.2025

**Version (Revision):** 6.0.0 (5.0.0)

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

### 1.1 Product Identifier

TECHNOFLUX 75-40 Universal-U-Super

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

PC 35 - Washing and cleaning product

### 1.3 Information about the supplier of the safety data sheet Supplier (manufacturer/importer/only representative/downstream user/reseller)

Techno-Service GmbH

**Street :** Detmolder Str. 515

**Postcode/Location:** 33605 Bielefeld

**Phone :** + 49 521 92444 0

**Fax:** + 49 521 207432

**Contact for information:** sale@metaflux.de

### 1.4 Emergency call number

Canutec 24H: 1-613-996-6666

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture Classification

#### according to Regulation (EC) No 1272/2008 [CLP]

Skin Irrit. 2; H315 - Skin corrosion/irritation: Category 2; Causes skin irritation.

Eye Dam. 1; H318 - Serious eye damage/eye irritation: Category 1; Causes serious eye damage.

### 2.2 Labeling elements

#### Labelling according to Regulation (EC) No 1272/2008 [CLP]

##### Risk pictograms



Corrosion (GHS05)

##### Warning notice

Hazard

##### Component(s) determining hazard classification for labelling

BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS No.: 68411-30-3 DISODIUM

METASILICATE; CAS No.: 6834-92-0

POTASSIUM HYDROXIDE; CAS No.: 1310-58-3 **Hazard**

##### statements

H318 Causes serious eye damage. Causes

H315 skin irritation.

##### Precautionary advice

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/doctor/... IF ON SKIN: Wash with plenty of water/.... If skin irritation occurs: Get medical advice/attention.

P302+P352

P332+P313

### 2.3 Other dangers

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixes

#### Hazardous components

2-BUTOXYETHANOL; REACH registration number: 01-2119475108-36-XXXX; EC No.: 203-905-0; CAS No.: 111-76-2

Weight :  $\geq 5 - < 10\%$

Classification 1272/2008 [CLP]: Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319

ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ; REACH registration number: 01-0000016977-53-XXXX ; CAS No.: 164462-16-2

Weight :  $\geq 1 - < 5\%$

Classification 1272/2008 [CLP]: Met. Corr. 1; H290

BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; REACH Registration Number: 01-2119489428-22-XXXX; EC No.: 270-115-0; CAS No.: 68411-30-3

Weight :  $\geq 1 - < 3\%$

Classification 1272/2008 [CLP]: Eye Dam. 1; H318 Acute Tox. 4; H302 Skin Irrit. 2; H315 Aquatic Chronic 3; H412

ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ; REACH registration number: 01-0000016977-53-XXXX ; CAS No.: 164462-16-2

Weight :  $\geq 1 - < 5\%$

Classification 1272/2008 [CLP]: Met. Corr. 1; H290

POTASSIUM CUMENESULFONATE; REACH registration number: 01-2119489427-24-XXXX; EC No.: 629-764-9; CAS No.: 164524-02-1

Weight :  $\geq 1 - < 5\%$

Classification 1272/2008 [CLP]: Eye Irrit. 2; H319

SODIUM CUMENESULFONATE; REACH registration number: 01-2119489411-37-XXXX; EC No.: 239-854-6; CAS No.: 15763-76-5

Weight :  $\geq 1 - < 5\%$

Classification 1272/2008 [CLP]: Eye Irrit. 2; H319

DISODIUM METASILICATE; REACH registration number: 01-2119449811-37-XXXX; EC No.: 229-912-9; CAS No.: 6834-92-0

Weight :  $\geq 1 - < 3\%$

Classification 1272/2008 [CLP]: Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335

POTASSIUM HYDROXIDE; REACH registration number: 01-2119487136-33-XXXX; EC No.: 215-181-3; CAS No.: 1310-58-3

Weight :  $\geq 1 - < 2\%$

Classification 1272/2008 [CLP]: Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 Acute Tox. 4; H302

Specific concentration limits Skin Corr. 1A; H314: C  $\geq 5\%$  • Eye Dam. 1 ; H318: C  $\geq 2\%$  • Skin Corr. 1B ; H314: :

C  $\geq 2\%$  • Skin Corr. 1C; H314: C  $\geq 2\%$  • Eye Irrit. 2; H319: C  $\geq 0.5\%$  • Skin Irrit. 2; H315: C  $\geq 0.5\%$

#### Various indications

Text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid

### 4.1 Description of first aid General information

If in doubt or if symptoms occur, seek medical advice.

#### In case of inhalation

If respiratory irritation occurs, seek medical advice. Remove victim to fresh air, cover with a blanket and keep still.

#### In case of skin contact

After contact with skin, wash immediately with plenty of soap and water. Apply a cream

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fat.

## After contact with eyes

In case of contact with eyes, rinse for a moment with water, keeping the eyelid open, and consult an ophthalmologist immediately.

## If swallowed

Rinse your mouth immediately and drink plenty of water. Call a doctor immediately.

## 4.2 Main symptoms and effects, acute and delayed

Causes serious eye damage. Causes skin irritation.

## 4.3 Indication of any immediate medical attention and special treatments required

None

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Blanket to extinguish the fire

### Unsuitable extinguishing media

High flow water jet

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

#### Hazardous combustion products

Sulfur oxides. Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and chemical protective clothing.

### 5.4 Various indications

The product itself is not combustible. Adapt extinguishing measures to the surrounding environment. If possible without risk, move undamaged containers away from the danger area.

## SECTION 6: Measures to be taken in the event of accidental release

### 6.1 Personal precautions, protective equipment and emergency procedures

Dangerously slippery floor in case of product leakage/spill.

### 6.2 Precautions for environmental protection

Do not allow to enter drains or running water. Do not allow to enter basement/ground.

### 6.3 Methods and materials for containment and cleaning

Dispose of spilled quantities immediately. Clean up with absorbent material (e.g. cloth, non-woven fabric). Rinse thoroughly with water. Treat collected material according to Disposal section.

### 6.4 Reference to other sections

Safe handling: see section 7 Personal protection: see section 8 Evacuation: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep container tightly closed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect from frost

#### Tips for shared storage

Storage class (TRGS 510):12

### 7.3 Specific end use(s)

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Observe the technical specifications sheet. Observe the operating instructions.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters Limit values at the workstation

2-BUTOXYETHANOL; CAS number: 111-76-2

Limit value type (country of origin): TRGS 900 ( D )

Threshold value: 10 ppm / 49 mg/m<sup>3</sup>  
Peak limitation: 4(II)  
Note: H,Y  
Version : 07.06.2018

Limit value type (country of origin): STEL (EC)

Threshold value: 50 ppm / 246 mg/m<sup>3</sup>  
Noticed : H  
Version : 31.01.2018

Limit value type (country of origin): TWA (EC)

Threshold value: 20 ppm / 98 mg/m<sup>3</sup>  
Noticed : H  
Version : 31.01.2018

### Biological limit values

2-BUTOXYETHANOL; CAS number: 111-76-2

Limit value type (country of origin): TRGS 903 ( D )

Setting : Butoxy acetic acid / Urine (U) / In case of long-term exposure: after several superimposed layers  
Threshold value: 100 mg/l  
Version : 07.06.2018

Limit value type (country of origin): TRGS 903 ( D )

Setting : Butoxy acetic acid / Urine (U) / End of exposure or even end of process; In case of long-term exposure: after several superimposed layers  
Threshold value: 150 mg/g Kr  
Version : 07.06.2018

### DNEL/DMEL and PNEC values

#### DNEL/DMEL

Limit value type: DNEL employee (local) (2-BUTOXYETHANOL; CAS No.: 111-76-2)

Route of exposure: Inhalation  
Exposure frequency: Short term (acute)  
Threshold value: 246 mg/m<sup>3</sup>

Limit value type: DNEL employee (local) (POTASSIUM HYDROXIDE; CAS No.: 1310-58-3)

Route of exposure: Inhalation  
Exposure frequency: Long term (repeated)  
Threshold value: 1 mg/m<sup>3</sup>

Limit value type: DNEL employee (local) (BENZENESULFONIC ACID, C10-13 ALKYLATE, SODIUM SALT; CAS No.: 68411-30-3)

Route of exposure: Inhalation  
Exposure frequency: Long term (repeated)  
Threshold value: 12 mg/m<sup>3</sup>

Limit value type: DNEL employee (systemic) (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS No.: 68411-30-3)

Route of exposure: Inhalation  
Exposure frequency: Long term (repeated)  
Threshold value: 12 mg/m<sup>3</sup>

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Limit value type:	DNEL employee (systemic) ( SODIUM CUMENESULPHONATE ; CAS No.: 15763-76-5 )
Route of exposure:	Inhalation
Exposure frequency:	Long term (repeated)
Threshold value:	53.6 mg/m <sup>3</sup>
Limit value type:	DNEL employee (systemic) (POTASSIUM HYDROXIDE; CAS No.: 1310-58-3) Inhalation
Route of exposure:	
Exposure frequency:	Long term (repeated)
Threshold value:	1 mg/m <sup>3</sup>
Limit value type:	DNEL employee (systemic) (POTASSIUM CUMENESULFONATE; CAS No.: 164524-02-1)
Route of exposure:	Inhalation
Exposure frequency:	Long term (repeated)
Threshold value:	53.6 mg/m <sup>3</sup>
Limit value type:	DNEL employee (systemic) (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Route of exposure:	Inhalation
Exposure frequency:	Long term (repeated)
Threshold value:	98 mg/m <sup>3</sup>
Limit value type:	DNEL employee (systemic) (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Route of exposure:	Inhalation
Exposure frequency:	Short term (acute)
Threshold value:	663 mg/m <sup>3</sup>
Limit value type:	DNEL employee (systemic) (POTASSIUM CUMENESULFONATE; CAS No.: 164524-02-1)
Route of exposure:	Dermal
Exposure frequency:	Long term (repeated)
Threshold value:	7.6 mg/kg
Limit value type:	DNEL employee (systemic) ( SODIUM CUMENESULPHONATE ; CAS No.: 15763-76-5 )
Route of exposure:	Dermal
Exposure frequency:	Long term (repeated)
Threshold value:	7.6 mg/kg
Limit value type:	DNEL employee (systemic) (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS No.: 68411-30-3)
Route of exposure:	Dermal
Exposure frequency:	Long term (repeated)
Threshold value:	170 mg/m <sup>3</sup>
Limit value type:	DNEL employee (systemic) (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Route of exposure:	Dermal
Exposure frequency:	Long term (repeated)
Threshold value:	75 mg/kg
Limit value type:	DNEL employee (systemic) (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Route of exposure:	Dermal
Exposure frequency:	Short term (acute)
Threshold value:	89 mg/kg
<b>PNEC</b>	
Limit value type:	PNEC (Water, Fresh water) (2-BUTOXYETHANOL; CAS No.: 111-76-2) 8.8 mg/l
Threshold value:	
Limit value type:	PNEC (Water, Sea water) (2-BUTOXYETHANOL; CAS No.: 111-76-2) 0.88 mg/l
Threshold value:	
Limit value type:	PNEC (Sediment, fresh water) (2-BUTOXYETHANOL; CAS No.: 111-76-2) 34.6 mg/kg
Threshold value:	
Limit value type:	PNEC (Earth) (2-BUTOXYETHANOL; CAS No.: 111-76-2) 2.33 mg/kg
Threshold value:	
Limit value type:	PNEC (Wastewater treatment plant) (2-BUTOXYETHANOL; CAS No.: 111-76-2) 463 mg/l
Threshold value:	
Limit value type:	PNEC (Water, Fresh water) ( ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No.: 164462-16-2 )
Route of exposure:	Water (including sewage treatment plant) 2
Threshold value:	mg/l
Limit value type:	PNEC (Waters, Sea water) ( ALANINE N,N-BIS(CARBOXYMETHYL), -

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Route of exposure:	TRINATRIUMSALT IN WATER ; CAS No.: 164462-16-2 ) Water (Including sewage treatment plant)
Threshold value:	0.2 mg/l
Limit value type:	PNEC (Sediment, fresh water) ( ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No.: 164462-16-2 )
Threshold value:	24 mg/kg
Limit value type:	PNEC land, fresh water (ALANINE N,N-BIS (CARBOXYMETHYL), -TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Route of exposure:	Earth
Threshold value:	2.5 mg/kg
Limit value type:	PNEC (Wastewater treatment plant) (ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Route of exposure:	Water (including sewage treatment plant)
Threshold value:	100 mg/l
Limit value type:	PNEC (Water, Fresh water) ( ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No.: 164462-16-2 )
Route of exposure:	Water (including sewage treatment plant) 2
Threshold value:	mg/l
Limit value type:	PNEC (Water, Sea water) ( ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No.: 164462-16-2 )
Route of exposure:	Water (including sewage treatment plant)
Threshold value:	0.2 mg/l
Limit value type:	PNEC (Sediment, fresh water) ( ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No.: 164462-16-2 )
Threshold value:	24 mg/kg
Limit value type:	PNEC land, fresh water (ALANINE N,N-BIS (CARBOXYMETHYL), -TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Route of exposure:	Earth
Threshold value:	2.5 mg/kg
Limit value type:	PNEC (Wastewater treatment plant) (ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Route of exposure:	Water (including sewage treatment plant)
Threshold value:	100 mg/l

## 8.2 Exposure controls Personal protection

### Eye/face protection



Wear protective goggles in case of splashes.

#### Proper eye protection

DIN EN 166

### Skin protection

#### Hand protection



Wear protective gloves in case of long-term contact.

**Suitable glove model:** IN 374. **Suitable**

**material:** NBR (Nitrile Rubber)

**Penetration time (maximum wearing time):** 480 min.

**Thickness of glove material:** 0.4 mm.

**Noticed:** The model of special chemistry gloves must be chosen according to the concentrations and quantities of the chemical substances specific to the position. It is advisable to ask the manufacturer for details regarding the resistance to chemical agents of the above-mentioned protective gloves for specific applications.

### Respiratory protection

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Respiratory protection is required when: exceeding the limit value

## Appropriate respiratory protection device

Combined filtering device (EN 14387)

Type: A

## Noticed

The wearing time limitations according to the GefStoffV Act must be observed in connection with the rules for the use of respiratory protective devices.

## General protection and hygiene measures

Do not carry rags impregnated with the product. Do not carry rags impregnated with the product. When using do not eat, drink, smoke or snuff. Avoid contact with skin, eyes and clothing. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

## 8.3 Various indications

No testing has been carried out. The selection for this preparation has been made in good faith taking into account the information relating to the components. The resistance of the material used for the gloves is not predictable, a test must therefore be carried out before their use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties Appearance:

Liquid  
**Color :** red  
**Smell :** characteristic

#### Appearance

**State :** Liquid

**Color :** colorless

#### Smell

characteristic

#### Safety data

**Solidification point:** ( 1013 hPa ) approx. 0 °C

**Initial boiling point and boiling range:** ( 1013 hPa ) approx. 97 °C

**Flash point:** negligible

**Lower explosive limit: Upper** negligible

**explosive limit: Vapor pressure:** negligible

(50°C) negligible

**Density :** (20°C) approx. 1.03 g/cm<sup>3</sup>

**Maximum VOC content (EC): Maximum** 5 Weight %

**VOC content (Switzerland):** 5 Weight %

### 9.2 Other information

None

## SECTION 10: Stability and responsiveness

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Under normal pressure distillation without decomposition.

### 10.3 Possibility of hazardous reactions

No hazardous reaction products are known.

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## 10.4 Conditions to avoid

No information available.

## 10.5 Incompatible materials

Aluminum Zinc

## 10.6 Hazardous decomposition products

Sulfur oxides. Carbon dioxide. Carbon monoxide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects Acute effects

#### Acute oral toxicity

Setting :	ATEmix calculated
Route of exposure:	Orally
Effective dose:	> 2000 mg/kg
Setting :	LD50 (POTASSIUM CUMENESULFONATE; CAS No.: 164524-02-1) Oral
Route of exposure:	
Species:	Rat
Effective dose:	> 2000 mg/kg
Setting :	LD50 (SODIUM CUMENESULPHONATE; CAS No.: 15763-76-5) Oral
Route of exposure:	
Species:	Rat
Effective dose:	> 2000 mg/kg
Setting :	LD50 (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS NO.: 68411-30-3)
Route of exposure:	Orally
Species:	Rat
Effective dose:	1080 mg/kg
Method :	OECD 401
Setting :	LD50 (DISODIUM METASILICATE; CAS No.: 6834-92-0) Oral
Route of exposure:	
Species:	Mouse
Effective dose:	770 - 820 mg/kg
Setting :	LD50 (DISODIUM METASILICATE; CAS No.: 6834-92-0) Oral
Route of exposure:	
Species:	Rat
Effective dose:	1152 - 1349 mg/kg
Setting :	LD50 (2-BUTOXYETHANOL; CAS No.: 111-76-2) Oral
Route of exposure:	
Species:	Rat
Effective dose:	1250 - 1490 mg/kg
Method :	OECD 401
Setting :	LD50 (ALANINE N,N-BIS(CARBOXYMETHYL)-,TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Route of exposure:	Orally
Species:	Rat
Effective dose:	> 4000 mg/kg

#### Acute dermal toxicity

Setting :	ATEmix calculated
Route of exposure:	Dermal
Effective dose:	> 2000 mg/kg
Setting :	LD50 (SODIUM CUMENESULPHONATE; CAS No.: 15763-76-5)
Route of exposure:	Dermal
Species:	Rat
Effective dose:	> 2000 mg/kg
Setting :	LD50 (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS NO.: 68411-30-3)



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Route of exposure:	Dermal
Species:	Rat
Effective dose:	> 300 - 2000 mg/kg
Method :	OECD 402
Setting :	LD50 (DISODIUM METASILICATE; CAS No.: 6834-92-0) Dermal
Route of exposure:	Dermal
Species:	Rat
Effective dose:	> 5000 mg/kg
Setting :	LD50 (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Route of exposure:	Dermal
Species:	Rabbit
Effective dose:	841 mg/kg
Method :	OECD 402
Setting :	LD50 (ALANINE N,N-BIS(CARBOXYMETHYL),-TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Route of exposure:	Dermal
Species:	Rat
Effective dose:	> 4000 mg/kg
Method :	OECD 402

## Acute inhalation toxicity

Setting :	ATEmix calculated
Route of exposure:	Inhalation
Effective dose:	> 20 mg/l
Setting :	LC50 (DISODIUM METASILICATE; CAS No.: 6834-92-0)
Route of exposure:	Inhalation
Species:	Rat
Effective dose:	> 2.06 mg/l
Exposure time:	4 h
Setting :	LC50 (SODIUM CUMENESULPHONATE; CAS No.: 15763-76-5)
Route of exposure:	Inhalation
Species:	Rat
Effective dose:	> 5 mg/l
Exposure time:	4 h
Setting :	LC50 (ALANINE N,N-BIS(CARBOXYMETHYL),-TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Route of exposure:	Inhalation
Species:	Rat
Effective dose:	> 5 mg/l
Setting :	LC50 (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Route of exposure:	Inhalation
Species:	Rat
Effective dose:	2 - 20 mg/l
Exposure time:	4 h

## Irritant and caustic effect

### Primary skin irritation

No additional relevant information available.

### Acid/alkali reserve (buffer capacity for mixtures with extreme pH values)

The mixture has a low buffer capacity (acid/alkaline reserves).

Results of in vitro skin corrosion and irritation tests:

Human Skin Model (HSM) test Despite extreme pH, the mixture should not be classified as corrosive.

### Eye irritation

No additional relevant information available.

## Awareness

### In case of skin contact

No additional relevant information available. **In case of**

### inhalation

No additional relevant information available.

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## CMR effects (carcinogenic, mutagenic and toxic for reproduction)

### Carcinogenicity

No additional relevant information available. **Germ cell**

### mutagenicity

No additional relevant information available. **Reproductive**

### toxicity

No additional relevant information available.

## Specific target organ toxicity – single exposure

No additional relevant information available.

## Specific target organ toxicity - repeated exposure

No additional relevant information available.

## Aspiration hazard

No additional relevant information available.

## 11.2 Toxicokinetics, metabolism and distribution

No data expected for the preparation/mixture.

## 11.3 Other adverse effects

Has a degreasing effect on the skin. Frequent and permanent contact with the skin can cause skin irritation. Can be absorbed through the skin. May irritate the respiratory tract.

## 11.4 Additional information

Uncontrolled preparation. The statement is deduced from the properties of the various components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) toxicity to fish

Setting :	LC50 (DISODIUM METASILICATE; CAS No.: 6834-92-0) Fish
Species:	
Evaluation parameters:	Acute (short-term) toxicity to fish 2320 mg/l
Effective dose:	
Exposure time:	96 h
Setting :	LC50 (POTASSIUM CUMENESULFONATE; CAS No.: 164524-02-1)
Species:	Cyprinus carpio (Carp)
Evaluation parameters:	Acute (short-term) toxicity to fish
Effective dose:	> 100 mg/l
Exposure time:	96 h
Setting :	LC50 (SODIUM CUMENESULPHONATE; CAS No.: 15763-76-5)
Species:	Cyprinus carpio (Carp)
Evaluation parameters:	Acute (short-term) toxicity to fish
Effective dose:	> 100 mg/kg
Exposure time:	96 h
Setting :	LC50 (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS NO.: 68411-30-3)
Species:	Lepomis macrochirus (bluegill) Acute (short-
Evaluation parameters:	term) toxicity to fish 1.67 mg/l
Effective dose:	
Exposure time:	96 h
Setting :	LC50 (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Species:	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameters:	Acute (short-term) toxicity to fish 1474 mg/l
Effective dose:	
Exposure time:	96 h
Method :	OECD 203
Setting :	LC50 (ALANINE N,N-BIS(CARBOXYMETHYL)-,TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)

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Species:	Brachydanio rerio
Evaluation parameters:	Acute (short-term) toxicity to fish
Effective dose:	> 110 mg/l
Exposure time:	96 h
Method :	Decree (EU) No 440/2008, Annex, C.1
Setting :	LC50 (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Species:	Daphnia magna (giant water flea)
Evaluation parameters:	Acute (short term) toxicity to daphnia 1815
Effective dose:	mg/l
Exposure time:	24 hours
Method :	DIN 38412 / part 11
Setting :	LC50 (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS NO.: 68411-30-3)
Species:	Daphnia
Evaluation parameters:	Acute (short term) toxicity to daphnia 3.5 mg/l
Effective dose:	
Exposure time:	96 h
Setting :	LC50 (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Species:	Daphnia magna (giant water flea)
Evaluation parameters:	Chronic (long term) toxicity to daphnia 297 mg/l
Effective dose:	
Exposure time:	21 d
Method :	OECD 211
<b>Chronic (long-term) toxicity to fish</b>	
Setting :	NOEC (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS NO.: 68411-30-3)
Species:	Fish
Evaluation parameters:	Chronic (long-term) toxicity to fish 0.25 mg/l
Effective dose:	
Exposure time:	90 d
Setting :	NOEC (ALANINE N,N-BIS(CARBOXYMETHYL)-,TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Species:	Oncorhynchus mykiss (Rainbow trout) Chronic (long
Evaluation parameters:	term) toxicity to fish = 100 mg/l
Effective dose:	
Exposure time:	28 d
Method :	OECD 204
Setting :	LOEC (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS NO.: 68411-30-3)
Species:	Fish
Evaluation parameters:	Chronic (long-term) toxicity to fish 0.51 mg/l
Effective dose:	
Exposure time:	90 d
<b>Acute (short term) toxicity to daphnia</b>	
Setting :	EC50 (DISODIUM METASILICATE; CAS No.: 6834-92-0) Daphnia
Species:	magna (giant water flea)
Evaluation parameters:	Acute (short term) toxicity to daphnia 1700
Effective dose:	mg/l
Exposure time:	48 hours
Method :	OECD 202
Setting :	EC50 (ALANINE N,N-BIS(CARBOXYMETHYL)-,TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Species:	Daphnia magna (giant water flea) Acute
Evaluation parameters:	(short term) toxicity to daphnia
Effective dose:	> 100 mg/l
Exposure time:	48 hours
Method :	Decree (EU) No 440/2008, Annex, C.2
Setting :	EC50 (DISODIUM METASILICATE; CAS No.: 6834-92-0)
Species:	Scenedesmus subspicatus

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Evaluation parameters: Acute (short term) toxicity to algae 207 mg/l  
Effective dose:  
Exposure time: 72 hours  
Method : DIN 38412 / part 9  
Setting : EC50 (POTASSIUM CUMENESULFONATE; CAS No.: 164524-02-1)  
Species: Daphnia magna (giant water flea)  
Evaluation parameters: Acute (short term) toxicity to daphnia  
Effective dose: > 100 mg/l  
Exposure time: 48 hours

## Chronic (long term) toxicity to daphnia

Setting : NOEC (2-BUTOXYETHANOL; CAS No.: 111-76-2)  
Species: Brachydanio rerio  
Evaluation parameters: Chronic (long-term) toxicity to fish  
Effective dose: > 100 mg/l  
Exposure time: 21 d  
Method : OECD 204  
Setting : NOEC (2-BUTOXYETHANOL; CAS No.: 111-76-2)  
Species: Daphnia magna (giant water flea)  
Evaluation parameters: Chronic (long term) toxicity to daphnia 100 mg/l  
Effective dose:  
Exposure time: 21 d  
Method : OECD 211  
Setting : NOEC (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS NO.: 68411-30-3)  
Species: Scenedesmus subspicatus  
Evaluation parameters: Acute (short term) toxicity to algae 2.4 mg/l  
Effective dose:  
Exposure time: 72 hours  
Setting : NOEC (ALANINE N,N-BIS(CARBOXYMETHYL)-,TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)  
Species: Daphnia magna (giant water flea) Chronic (long term) toxicity to daphnia  
Effective dose: > = 100 mg/l  
Exposure time: 21 d  
Method : Decree (EU) No 440/2008, Annex, C.20 NOEC (2-BUTOXYETHANOL; CAS No.: 111-76-2) Algae  
Setting :  
Species:  
Effective dose: 286 mg/l  
Exposure time: 72 hours  
Method : OECD 201  
Setting : LOEC (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS NO.: 68411-30-3)  
Species: Daphnia  
Evaluation parameters: Chronic (long term) toxicity to daphnia 4 mg/l  
Effective dose:  
Exposure time: 28 d

## Acute (short term) toxicity to algae

Setting : EC50 (2-BUTOXYETHANOL; CAS No.: 111-76-2) Algae  
Species:  
Effective dose: 1840 mg/l  
Exposure time: 72 hours  
Method : OECD 201  
Setting : EC50 (ALANINE N,N-BIS(CARBOXYMETHYL)-,TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)  
Species: Scenedesmus subspicatus  
Evaluation parameters: Acute (short term) toxicity to algae  
Effective dose: > 200 mg/l  
Exposure time: 72 hours  
Setting : EC50 (SODIUM CUMENESULPHONATE; CAS No.: 15763-76-5)

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Species: Daphnia magna (giant water flea) Acute  
Evaluation parameters: (short term) toxicity to daphnia  
Effective dose: > 100 mg/l  
Exposure time: 48 hours  
Setting : EC50 (SODIUM CUMENESULPHONATE; CAS No.: 15763-76-5)  
Species: Desmodesmus subspicatus  
Evaluation parameters: Acute (short term) toxicity to algae  
Effective dose: > 100 mg/l  
Exposure time: 72 hours  
Setting : EC50 (POTASSIUM CUMENESULFONATE; CAS No.: 164524-02-1)  
Species: Desmodesmus subspicatus  
Evaluation parameters: Acute (short term) toxicity to algae  
Effective dose: > 100 mg/l  
Exposure time: 72 hours

## Bacterial toxicity

Setting : EC50 (DISODIUM METASILICATE; CAS No.: 6834-92-0) Bacterial toxicity  
Species: Bacterial toxicity  
Effective dose: > 100 mg/l  
Exposure time: 3 h  
Setting : EC50 (POTASSIUM CUMENESULFONATE; CAS No.: 164524-02-1)  
Species: Bacterial toxicity  
Effective dose: > 1000 mg/l  
Exposure time: 3 h  
Setting : EC50 (SODIUM CUMENESULPHONATE; CAS No.: 15763-76-5)  
Species: Bacterial toxicity  
Effective dose: > 1000 mg/l

## 12.2 Persistence and degradability

The surfactant contained in this mixture meets the biodegradability criteria as defined in Regulation (EC) No 648/2004 on detergents.

### Biodegradation

Setting : Biodegradation (2-BUTOXYETHANOL; CAS No.: 111-76-2)  
Inoculum: Biodegradation  
Decay rate: Test duration: 88%  
20 d  
Setting : Biodegradation (POTASSIUM CUMENESULFONATE; CAS No.: 164524-02-1)  
Inoculum: Biodegradation  
Evaluation parameters: Aerobic  
Decay rate: Test duration: 99.8%  
28 d  
Assessment : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B  
Setting : Biodegradation ( SODIUM CUMENESULPHONATE ; CAS No.: 15763-76-5 )  
Inoculum: Biodegradation  
Evaluation parameters: Aerobic  
Decay rate: Test duration: 99.8%  
28 d  
Assessment : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B  
Setting : BOD (% of DThO) (ALANINE N,N-BIS (CARBOXYMETHYL), -TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)  
Inoculum: Degree of degradability  
Evaluation parameters: Aerobic  
Decay rate: Test duration: > 80 - 90%  
28 d  
Assessment : Readily biodegradable (according to OECD criteria).  
Method : OECD 301F  
Setting : CO2 formation (% of theoretical value) (BENZENESULFONIC ACID, C10-13 ALKYLATED, SODIUM SALT; CAS No.: 68411-30-3)

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Inoculum:	Biodegradation
Evaluation parameters:	Aerobic
Decay rate: Test duration:	85% 29 d
Assessment :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B
Setting :	Decrease in COD (ALANINE N,N-BIS(CARBOXYMETHYL),-TRINATRIUMSALT IN WATER; CAS No.: 164462-16-2)
Inoculum:	Degree of degradability
Evaluation parameters:	Aerobic
Decay rate: Test duration:	> 90 - 100% 28 d
Method :	OECD 301F

## 12.3 Bioaccumulation potential

No indication of bioaccumulation potential.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessments

This substance does not meet the PTB/vPvB criteria of REACH Directive Annex XIII.

## 12.6 Other adverse effects

No information available.

## 12.7 Other ecotoxicological information

After neutralization, no reduction in the harmful effect can be observed.

## SECTION 13: Disposal Considerations

Depending on the industry and the process, the classification into a waste category must be carried out in accordance with the German EAVK directive. List of proposals for waste codes/waste designations according to the EWC

### 13.1 Waste treatment methods Disposal of product/packaging

**Waste code/waste designations according to EAK/AVV code**

**Product waste code**

07 06 01\* - washing water and aqueous mother liquors  
20 01 29\* - detergents containing dangerous substances.

**Packaging waste code**

15 01 02 - plastic packaging. **Waste treatment solutions**

**Proper Disposal / Packaging**

Contaminated packaging must be completely emptied and may be reused after adequate cleaning. Contaminated packaging must be treated as the substance.

### 13.2 Additional information

These individual identification numbers have been assigned based on the most common uses of the equipment, making it possible to ignore the release of pollutants during a specific use.

## SECTION 14: Transport information

### 14.1 UN number

The product is not a dangerous product according to the applicable transport regulations.

### 14.2 UN official shipping designation

The product is not a dangerous product according to the applicable transport regulations.

### 14.3 Transport hazard class(es)

The product is not a dangerous product according to the applicable transport regulations.

### 14.4 Packing group

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The product is not a dangerous product according to the applicable transport regulations.

## 14.5 Environmental hazards

The product is not a dangerous product according to the applicable transport regulations.

## 14.6 Special precautions to be taken by the user

None

## 14.7 Transport in bulk in accordance with Annex II of the Marpol Convention and the IBC Code

Transport in bulk containers is prohibited under the IMDG Code.

## SECTION 15: Regulatory information

### 15.1 Specific safety, health and environmental regulations/legislation for the substance or mixture

#### EU Regulations

##### Permissions and Limitations of Use

##### Limits of use

Restriction of use in accordance with Annex XVII of REACH Regulation No: 3

##### Explanatory note on the occupancy limit

Take into account the restrictions provided for by the law on the protection of young workers (94/33/EC). Take into account the restrictions provided for by the decree on the protection of mothers (92/85/EEC) concerning pregnant or breastfeeding women.

##### Other regulations (EU)

##### Characteristics of components according to EC decree no. 648/2004

< 5% anionic surfactants < 5%  
nonionic surfactants

##### National guidelines

AT: Marking according to Austrian regulations (chemical law / chemV).

CH: Please note the Chemical Law / ChemV and Chem RRV according to the regulations of Switzerland.

##### Technical Anleitung Luft (TA-Luft)

Weight (Article 5.2.5. I): < 5%

##### Water hazard class (WGK)

Classification according to AwSV - Class: 1 (Presents a low hazard to water.)

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this substance.

## SECTION 16: Other information

### 16.1 Change indications

02. Label elements · 03. Hazardous components · 08. Workplace limit values · 08. DNEL/DMEL · 15. Limits of use · 15. Technical operating instructions air (TA-air) · 15. Water hazard class (WGK)

### 16.2 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AOX: Adsorbable halogenated organic compounds

AwSV: German Ordinance on Treatment Plants for Substances Hazardous to Water CAS: Chemical

Abstracts Service (subdivision of the American Chemical Society)

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Classification Labelling and Packaging)

EAK / AVV: European Waste Catalogue / European Waste List ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

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TRGS: German Technical Regulations for Hazardous Substances VbF: German Regulation on Flammable Liquids  
VOC: volatile organic compound  
VwVwS: Administrative instruction on substances hazardous to water WGK: Water hazard class

## 16.3 Literary references and important sources of data

DGUV: German Social Insurance for Occupational Accidents and Diseases, GESTIS Substance Database

ECHA: Inventory of classification and labelling ECHA: Pre-registered substances  
ECHA: Registered substances  
EC Safety Data Sheets from Suppliers  
ESIS: European Chemical Substances Information System GDL: Country database on hazardous substances  
UBA Rigoletto: Database of the German Federal Environmental Agency on substances hazardous to water

Regulation (EC) No 1907/2006 of the European Parliament and of the Council  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council

## 16.4 Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP]

No information available.

## 16.5 Text of H- and EUH-sentences (Number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage. Causes skin irritation.
H315	
H318	Causes serious eye damage. Causes
H319	serious eye irritation. Harmful if inhaled.
H332	
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

## 16.6 Professional internship indications

None

## 16.7 Additional information

None

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The information in this safety data sheet corresponds to our current knowledge at the time of printing. This information is intended to provide guidelines for the safe handling of the product covered by this safety data sheet, in particular with regard to its storage, processing, transport and disposal. The information is not applicable to other products. If the product is mixed or processed with other materials, this safety data sheet is not automatically valid for the material thus produced.

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