

## SAFETY DATA SHEET

### TCS 25

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

##### 1.1. Product identifier

Trade name

TCS 25

Product no.

1120

Unique formula identifier (UFI)

E2A0-J0Y6-D006-0EQ6

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

Relevant identified uses of the substance or mixture

Cleaning product

Uses advised against

No special

##### 1.3. Details of the supplier of the safety data sheet

Company and address

**Trion Tensid AB**

Svederusgatan 1-3

SE-75450 Uppsala

Sweden

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11-01-2022

SDS Version

6.0

Date of previous version

2021-02-16 (5.0)

##### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Skin Corr. 1; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

##### 2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

▼ Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Safety statement(s)

General

-

▼ Prevention

Do not breathe vapour / mist. (P260)

Wear eye protection / protective gloves / protective clothing. (P280)

▼ Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER / doctor. (P310)

Storage

-

▼ Disposal

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

Hazardous substances

hexyl D-glucoside

Sodium metasilicatePentahydrat

2-propylheptanoletoxilat

2.3. Other hazards

Additional labelling

Not applicable

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

## SECTION 3: Composition/information on ingredients

▼ 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
2-butoxyethanol	CAS No.: 111-76-2 EC No.: 203-905-0 REACH: 01-2119475108-36 Index No.: 603-014-00-0	5-10%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
hexyl D-glucoside	CAS No.: 54549-24-5 EC No.: 259-217-6 REACH: 01-2119492545-29-29 Index No.:	3-5%	Eye Dam. 1, H318	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Sodium metasilicatePentahydrat	CAS No.: 10213-79-3 EC No.: 600-279-4 REACH: 01-2119449811-37-xxxxx Index No.:	1-3,5%	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335	
2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 REACH: 01-2119475104-44 Index No.: 603-096-00-8	1-3%	Eye Irrit. 2, H319	[1], [3]
2-propylheptanoletoxilat	CAS No.: 160875-66-1 EC No.: 605-233-7 REACH: Index No.:	<2%	Eye Dam. 1, H318	
Alcohols, C9-C11, Ethoxylated	CAS No.: 68439-46-3 EC No.: 614-482-0 REACH: Index No.:	<2%	Eye Irrit. 2, H319	

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### ▼ Other information

[1] European occupational exposure limit

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

#### ▼ Labelling of contents according to Detergents Regulation (EC) No 648/2004

< 5%

- Anionic surfactants
- Soap

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### ▼ Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### ▼ Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Burns

Not applicable

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

#### ▼ 5.1. Extinguishing media

Not applicable

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>).

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

#### ▼ 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

#### ▼ 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### ▼ 7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### ▼ Recommended storage material

Always store in containers of the same material as the original container.

#### Storage temperature

No specific requirements

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### ▼ 8.1. Control parameters

—  
2-butoxyethanol

Long term exposure limit (8 hours) (ppm): 25

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 123

Short term exposure limit (15 minutes) (ppm): 50

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 246

Annotations:

BMVG = Biological Monitoring Guidance Value exists

Sk = Can be absorbed through the skin and lead to systemic toxicity.

—  
2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether

Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 67,5

Short term exposure limit (15 minutes) (ppm): 15

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 101,2



The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

### ▼ DNEL

Product/substance	2-butoxyethanol
DNEL	6,3 mg/kg bw/day
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	2-butoxyethanol
DNEL	89 mg/kg bw/day
Route of exposure	Dermal

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Duration	Short term – Systemic effects - Workers
Product/substance	2-butoxyethanol
DNEL	1091 mg/kbm
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers
Product/substance	2-butoxyethanol
DNEL	246 mg/kbm
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers
Product/substance	2-butoxyethanol
DNEL	125 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	2-butoxyethanol
DNEL	98 mg/kg bw/day
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	2-butoxyethanol
DNEL	89 mg/kg bw/day
Route of exposure	
Duration	Short term – Systemic effects - General population
Product/substance	2-butoxyethanol
DNEL	26,7 mg/kg bw/day
Route of exposure	Oral
Duration	Short term – Systemic effects - General population
Product/substance	2-butoxyethanol
DNEL	147 mg/kbm
Route of exposure	Inhalation
Duration	Short term – Local effects - General population
Product/substance	2-butoxyethanol
DNEL	75 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	2-butoxyethanol

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

DNEL	59 mg/kbm
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	2-butoxyethanol
DNEL	426 mg/kbm
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population
Product/substance	2-butoxyethanol
DNEL	98 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	2-butoxyethanol
DNEL	1091 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers
Product/substance	2-butoxyethanol
DNEL	59 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	2-butoxyethanol
DNEL	426 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population
Product/substance	2-butoxyethanol
DNEL	147 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Local effects - General population
Product/substance	2-butoxyethanol
DNEL	6.3 mg/kg/day
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	2-butoxyethanol
DNEL	26.7 mg/kg/day
Route of exposure	Oral

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Duration	Short term – Systemic effects - General population
Product/substance	2-butoxyethanol
DNEL	246 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers
Product/substance	hexyl D-glucoside
DNEL	357000 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	hexyl D-glucoside
DNEL	124 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	hexyl D-glucoside
DNEL	35,7 mg/kg bw/day
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	hexyl D-glucoside
DNEL	420 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	hexyl D-glucoside
DNEL	595000 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Sodium metasilicatePentahydrat
DNEL	6,22 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Sodium metasilicatePentahydrat
DNEL	1,49 mg/kg bw/24 h
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Sodium metasilicatePentahydrat



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

DNEL	1,55 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Sodium metasilicatePentahydrat
DNEL	0,74 mg/kg bw/24h
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Sodium metasilicatePentahydrat
DNEL	0,74 mg/kg bw/24h
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
DNEL	67,5 mg/kbm 10 ppm
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
DNEL	101,2 mg/kbm
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
DNEL	20 mg/kg/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
DNEL	67,5 mg/kbm 10 ppm
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

#### ▼ PNEC

Product/substance	2-butoxyethanol
PNEC	0,88 mg/L
Route of exposure	Marine water
Duration of Exposure	Single
Product/substance	2-butoxyethanol

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

PNEC	8,8 mg/L
Route of exposure	Freshwater
Duration of Exposure	Single
Product/substance	2-butoxyethanol
PNEC	9,1 mg/L
Route of exposure	Water
Duration of Exposure	Continuous
Product/substance	2-butoxyethanol
PNEC	463 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	Single
Product/substance	2-butoxyethanol
PNEC	8.8 mg/L
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	2-butoxyethanol
PNEC	3,46 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	Single
Product/substance	2-butoxyethanol
PNEC	34,6 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	Single
Product/substance	2-butoxyethanol
PNEC	26.4 mg/L
Route of exposure	Intermittent release (freshwater)
Duration of Exposure	
Product/substance	2-butoxyethanol
PNEC	880 µg/L
Route of exposure	Marine water
Duration of Exposure	
Product/substance	2-butoxyethanol
PNEC	463 mg/L
Route of exposure	Sewage treatment plant

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Duration of Exposure	
Product/substance	2-butoxyethanol
PNEC	3.46 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	2-butoxyethanol
PNEC	2.33 mg/kg
Route of exposure	Soil
Duration of Exposure	
Product/substance	2-butoxyethanol
PNEC	20 mg/kg
Route of exposure	Predators
Duration of Exposure	
Product/substance	2-butoxyethanol
PNEC	34.6 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	2-butoxyethanol
PNEC	2,33 mg/kg
Route of exposure	Soil
Duration of Exposure	Single
Product/substance	hexyl D-glucoside
PNEC	0,176 mg/L
Route of exposure	Freshwater
Duration of Exposure	Single
Product/substance	hexyl D-glucoside
PNEC	0,018 mg/L
Route of exposure	Marine water
Duration of Exposure	Single
Product/substance	hexyl D-glucoside
PNEC	100 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	Single
Product/substance	hexyl D-glucoside

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

PNEC	0,722 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	Single
Product/substance	hexyl D-glucoside
PNEC	0,072 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	Single
Product/substance	hexyl D-glucoside
PNEC	0,654 mg/kg
Route of exposure	Soil
Duration of Exposure	Single
Product/substance	Sodium metasilicatePentahydrat
PNEC	7,5 mg/l
Route of exposure	Freshwater
Duration of Exposure	Single
Product/substance	Sodium metasilicatePentahydrat
PNEC	1 mg/L
Route of exposure	Marine water
Duration of Exposure	Single
Product/substance	Sodium metasilicatePentahydrat
PNEC	1000 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	Single
Product/substance	Sodium metasilicatePentahydrat
PNEC	7,5 mg/l
Route of exposure	Intermittent release
Duration of Exposure	Single
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
PNEC	0,1 mg/L
Route of exposure	Marine water
Duration of Exposure	Single
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
PNEC	4,4 mg/kg
Route of exposure	Freshwater sediment

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Duration of Exposure	Single
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
PNEC	0,44 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	Single
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
PNEC	0,32 mg/kg
Route of exposure	Soil
Duration of Exposure	Single
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
PNEC	200 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	Single
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
PNEC	1 mg/L
Route of exposure	Freshwater
Duration of Exposure	Single

## ▼ 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### ▼ Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

### Individual protection measures, such as personal protective equipment

#### Generally

Wash contaminated clothing before reuse.

Use only CE marked protective equipment.

#### ▼ Respiratory Equipment

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Work situation	Type	Class	Colour	Standards
In the event of insufficient ventilation	A	Class 1 (low capacity)	Brown	EN14387



#### Skin protection

Recommended	Type/Category	Standards
Dedicated work clothing should be worn.	-	-



#### ▼ Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Latex	0.12	-	EN374-2



#### Eye protection

Type	Standards
Wear safety glasses with side shields.	EN166



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Colour

Yellowish

#### Odour / Odour threshold

Faint

#### pH

12,5

#### Density (g/cm<sup>3</sup>)

1.07

#### Kinematic viscosity

Testing not relevant or not possible due to nature of the product.

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

##### Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.

##### Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

##### ▼ Boiling point (°C)

150-200 °C

#### Vapour pressure

Testing not relevant or not possible due to nature of the product.

#### Relative vapour density

Testing not relevant or not possible due to nature of the product.

#### Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

#### Data on fire and explosion hazards

##### ▼ Flash point (°C)

67.00 °C

##### ▼ Ignition (°C)

Not applicable - based on structure

##### ▼ Auto flammability (°C)

Not applicable - based on structure

##### ▼ Lower and upper explosion limit (% v/v)

Not applicable - based on structure

#### Solubility

##### Solubility in water

Soluble

##### n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

##### Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

#### 9.2. Other information

##### ▼ Other physical and chemical parameters

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### ▼ 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

No special

#### 10.4. Conditions to avoid

No special

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### ▼ Acute toxicity

Product/substance	2-butoxyethanol
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	220 mg/kg ·

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Other information	
Product/substance	2-butoxyethanol
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	2270 mg/kg ·
Other information	
Product/substance	2-butoxyethanol
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	2,2 mg/l (4 h) ·
Other information	
Product/substance	2-butoxyethanol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	2000 mg/kg ·
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result	>2000 mg/kg
Other information	
Product/substance	Sodium metasilicatePentahydrat
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>5000 mg/kg
Other information	
Product/substance	Sodium metasilicatePentahydrat
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>2 060 mg/m <sup>3</sup>
Other information	
Product/substance	Sodium metasilicatePentahydrat
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1152-1349 mg/kg
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>29 ppm (2h) ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Rat
Route of exposure	Oral

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Test	LD50
Result	2410 mg/kg ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	2764 mg/kg ·
Other information	
Product/substance	2-propylheptanoletoxilat
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>2000-5000 mg/kg ·
Other information	
Product/substance	2-propylheptanoletoxilat
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>20 mg/L ·
Other information	
Product/substance	2-propylheptanoletoxilat
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000-5000 mg/kg ·
Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Species	Rat

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg
Other information	

#### ▼ Skin corrosion/irritation

Product/substance	Sodium metasilicatePentahydrat
Test method	OECD 404
Species	Rabbit
Duration	No data available.
Result	Adverse effect observed (Corrosive)
Other information	

Causes severe skin burns and eye damage.

#### ▼ Serious eye damage/irritation

Causes serious eye damage.

#### ▼ Respiratory sensitisation

Product/substance	hexyl D-glucoside
Test method	
Species	Guinea pig
Result	No adverse effect observed (not sensitising)
Other information	

#### ▼ Skin sensitisation

Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	OECD 406
Species	Guinea pig
Result	No adverse effect observed (not sensitising)
Other information	

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### ▼ STOT-repeated exposure

Product/substance	Sodium metasilicatePentahydrat
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Test method	
Species	Rat
Route of exposure	
Target organ	
Duration	No data available.
Test	
Result	227 mg/kg/day
Conclusion	
Other information	

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

##### Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

##### ▼ Endocrine disrupting properties

No special

##### Other information

2-butoxyethanol has been classified by IARC as a group 3 carcinogen.

## SECTION 12: Ecological information

### ▼ 12.1. Toxicity

Product/substance	2-butoxyethanol
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	1550 mg/l ·
Other information	
Product/substance	2-butoxyethanol
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result	1840 mg/l ·
Other information	
Product/substance	2-butoxyethanol
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	1474 mg/l ·
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Daphnia
Compartment	
Duration	21 days
Test	NOEC
Result	>1-10 mg/L
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	>100 mg/L ·
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	>100 mg/L ·
Other information	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	hexyl D-glucoside
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	NOEC
Result	>100 mg/L
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>100 mg/L ·
Other information	
Product/substance	Sodium metasilicatePentahydrat
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	210 mg/L ·
Other information	
Product/substance	Sodium metasilicatePentahydrat
Test method	
Species	Daphnia
Compartment	
Duration	96 hours
Test	EC50
Result	1700 mg/L ·
Other information	
Product/substance	Sodium metasilicatePentahydrat
Test method	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	345,4 mg/L (growth rate) ·
Other information	
Product/substance	Sodium metasilicatePentahydrat
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	207 mg/L (Biomass) ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Algae
Compartment	
Duration	96 hours
Test	EC50
Result	>100 mg/l ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	1300 mg/l ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Daphnia
Compartment	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Duration	72 hours
Test	EC50
Result	>100 mg/l ·
Other information	
Product/substance	2-propylheptanoletoxilat
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>10-100 mg/L
Other information	
Product/substance	2-propylheptanoletoxilat
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	>10-100 mg/L
Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	>1 mg/L
Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result	>1 mg/L
Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	>1 mg/L
Other information	

#### ▼ 12.2. Persistence and degradability

Product/substance	2-butoxyethanol
Biodegradable	Yes
Test method	OECD 301 B
Result	90%
Product/substance	hexyl D-glucoside
Biodegradable	Yes
Test method	OECD 301 D
Result	>70%
Product/substance	Sodium metasilicatePentahydrat
Biodegradable	Yes
Test method	
Result	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Biodegradable	Yes
Test method	OECD 301 B
Result	100%
Product/substance	2-propylheptanoletoxilat
Biodegradable	Yes
Test method	OECD 301 D
Result	>60%
Product/substance	Alcohols, C9-C11, Ethoxylated
Biodegradable	Yes

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Test method	OECD 301 D
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Result	
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### ▼ 12.3. Bioaccumulative potential

Product/substance	2-butoxyethanol
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Test method	
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Potential bioaccumulation	No
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LogPow	No data available
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BCF	No data available
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Other information	
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Product/substance	hexyl D-glucoside
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Test method	
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Potential bioaccumulation	No
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LogPow	No data available
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BCF	No data available
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Other information	
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Product/substance	Sodium metasilicatePentahydrat
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Test method	
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Potential bioaccumulation	No
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LogPow	No data available
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BCF	No data available
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Other information	
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Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
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Test method	
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Potential bioaccumulation	No
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LogPow	1,0000
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BCF	No data available
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Other information	
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Product/substance	2-propylheptanoletoxilat
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Test method	
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Potential bioaccumulation	No
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LogPow	No data available
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BCF	No data available
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### ▼ 12.6. Endocrine disrupting properties

No special

#### 12.7. Other adverse effects

No special

### SECTION 13: Disposal considerations

#### ▼ 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive

Avoid discharge to lakes, streams, sewers, etc.

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

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

After dilution with water, small quantities are permitted to go to water treatment plants. Empty packages and product residues must be handled in an environmentally correct manner according to applicable laws and provisions. The company is affiliated to REPA. Do not attempt to refill or clean the package.

#### EWC code

20 01 30 Detergents other than those mentioned in 20 01 29

#### Specific labelling

Not applicable

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### SECTION 14: Transport information

#### ▼ 14.1. - 14.4.

Not dangerous goods according to ADR, IATA and IMDG.

#### ADR/RID

Not applicable

#### ▼ IMDG

Not applicable

#### ▼ MARINE POLLUTANT

No

#### ▼ IATA

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

##### Demands for specific education

No specific requirements

##### SEVESO - Categories / dangerous substances

Not applicable

##### Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

##### ▼ Sources

The Management of Health and Safety at Work Regulations 1999

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

##### ▼ Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H312, Harmful in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

##### ▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

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

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit.  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVCB = Complex hydrocarbon substance  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

▼ **Additional information**

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP)

▼ **The safety data sheet is validated by**

MÅ

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en