



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No. : 817  
V003.16

Perwoll Wool & Delicates

Revision: 03.05.2022  
printing date: 11.05.2022  
Replaces version from: 09.12.2021

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

#### 1.1. Product identifier

Perwoll Wool & Delicates

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

Intended use:  
special detergent

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

Henkel & Cie. AG, Pratteln  
Salinenstrasse 61  
CH-4133 Pratteln  
Phone: ++41-(0)61-825 7000  
Fax-no.: ++41-(0)61-825 7434

#### 1.4. Emergency telephone number

Tox Info Suisse (24h / 7d): +41 44 251 51 51 or 145 (Switzerland and Liechtenstein).

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No 1272/2008 (CLP):

Eye Dam. 1  
H318 Causes serious eye damage.  
Skin Sens. 1  
H317 May cause an allergic skin reaction.

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard pictogram:



Signal word: Warning

Hazard statement: H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

**Precautionary statement:** P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear eye protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with national regulation.

**Contains:**  
2-methylisothiazol-3(2H)-one

**2.3. Other hazards**  
None if used properly.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

#### 3.2. Mixtures

**Hazardous substances according to CLP (EC) No 1272/2008:**

Hazardous substances CAS-No.	EINECS	REACH-Reg No.	Content	Classification
Alcohols, C12-18, ethoxylated 68213-23-0			>= 1- < 5 %	Acute toxicity 4; Oral H302 Serious eye damage 1 H318 Chronic hazards to the aquatic environment 3 H412
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	500-234-8		>= 1- < 5 %	Skin irritation 2; Dermal H315 Serious eye damage 1 H318 Chronic hazards to the aquatic environment 3 H412
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	270-115-0	*	>= 1- < 5 %	Acute toxicity 4; Oral H302 Skin irritation 2 H315 Serious eye damage 1 H318 Chronic hazards to the aquatic environment 3 H412
Sodium metaborate, anhydrous 7775-19-1	231-891-6	*	>= 0,1- < 1 %	Toxic to reproduction 2 H361d Serious eye irritation 2 H319
2-methylisothiazol-3(2H)-one 2682-20-4	220-239-6		>= 15- < 100 PPM	Chronic hazards to the aquatic environment 1 H410 Skin sensitizer 1A H317 Acute toxicity 2; Inhalation H330 Acute toxicity 3; Oral H301 Acute toxicity 3; Dermal H311 Serious eye damage 1 H318 Acute hazards to the aquatic environment 1 H400 Skin corrosion 1B H314

\*exempted according to REACH article 2(7) and Annex V. Each starting material of the ionic mixture is registered, as required.

**For full text of the H - Phrases indicated by codes only see Section 16 "Other information".**

May contain up to 0,29% boric acid (REACH-Reg No. 01-2119486683-25).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air. In case of breathing difficulties seek immediate medical advice.

Skin contact:

Rinse with water. Take off all clothing contaminated by the product.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:

Do not induce vomiting, seek medical advice immediately.

Rinse mouth with water, (only if the person is conscious).

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

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Temporary irritation of the skin (redness, swelling, burning).

After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).

After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

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

After inhalation: No special action.

After skin contact: No special action.

After eye contact: No special action.

After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).

After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions. Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

**Extinguishing media which must not be used for safety reasons:**

None

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

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

### 5.3. Advice for firefighters

Use personal protective equipment and self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

If large amounts are released contact the fire service.  
Avoid contact with skin and eyes.  
Danger of slipping on spilled product.  
Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

Remove mechanically. Rinse away residue with plenty of water.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

No special measures required if used properly.

**Hygiene measures:**

Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

Protective equipment only required in case of industrial use or for large packs (not for household packs)

**7.2. Conditions for safe storage, including any incompatibilities**

Store dry at between +5 and +40°C.  
Consider national regulations.

**7.3. Specific end use(s)**

special detergent

**SECTION 8: Exposure controls/personal protection**

Only relevant for professional/industrial use

**8.1. Control parameters**

Valid for  
Switzerland

Contains no components with occupational exposure limit values.

**8.2. Exposure controls**

Respiratory protection:  
Not needed.

**Hand protection:**

For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:  
Wear tight fitting goggles.

Skin protection:  
Protective clothing against chemicals. Observe manufacturer's instructions.

### SECTION 9: Physical and chemical properties

The following data apply to the whole mixture.

a) Appearance	liquid turbid pink
b) Odor	floral, sweet
c) Odour threshold	No data available / Not applicable
d) pH (20 °C (68 °F); Conc.: 100 % product)	8,2 - 8,6
e) Melting point	No data available / Not applicable
f) Initial boiling point and boiling range	No data available / Not applicable
g) Flash point	No flash point up to 100°C. Aqueous preparation.
h) Evaporation rate	No data available / Not applicable
i) Flammability (solid , gas)	No data available / Not applicable
j) Upper / lower flammability or explosive limits	No data available / Not applicable
k) Vapour pressure	No data available / Not applicable
l) Vapor density	No data available / Not applicable
m) Relative density	
Density (20 °C (68 °F))	1,024 - 1,034 g/cm <sup>3</sup>
Density (20 °C (68 °F))	1,023 - 1,033 g/cm <sup>3</sup>
n) Solubility (ies)	soluble in water
o) Partition coefficient: n-octanol/water	No data available / Not applicable
p) Auto-ignition temperature	No data available / Not applicable
q) Decomposition temperature	No data available / Not applicable
r) Viscosity (Brookfield; Instrument: LVDV II+; 20 °C (68 °F); speed of rotation: 30,0 min <sup>-1</sup> ; Spindle No: 31; Conc.: 100 % product; Solvent: None)	95 - 300 mPa.s
r) Viscosity (Brookfield; Instrument: LVDV II+; 20 °C (68 °F); speed of rotation: 30,0 min <sup>-1</sup> ; Spindle No: 31; Conc.: 100 % product; Solvent: None)	95 - 400 mPa.s
s) Explosive properties	No data available / Not applicable
t) Oxidising properties	No data available / Not applicable

#### 9.2. Other information

Not applicable

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None if used for intended purpose.

#### 10.2. Chemical stability

Stable under normal conditions of temperature and pressure.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

No decomposition if used according to specifications.

#### 10.5. Incompatible materials

None if used properly.

#### 10.6. Hazardous decomposition products

No decomposition if used according to specifications.

<b>SECTION 11: Toxicological information</b>
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**11.1. Information on toxicological effects****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Alcohols, C12-18, ethoxylated 68213-23-0	LD50	1.700 mg/kg	rat	not specified
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	LD50	2.870 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	1.080 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Sodium metaborate, anhydrous 7775-19-1	LD50	> 2.500 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
2-methylisothiazol-3(2H)- one 2682-20-4	LD50	120 mg/kg	rat	EPA OPPTS 870.1100 (Acute Oral Toxicity)

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
2-methylisothiazol-3(2H)- one 2682-20-4	LD50	242 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
2-methylisothiazol-3(2H)- one 2682-20-4	LC50	0,11 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Alcohols, C12-18, ethoxylated 68213-23-0	moderately irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Category 2 (irritant)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-methylisothiazol-3(2H)- one 2682-20-4	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

The product has to be classified as eye irritation category 2 based on experimental data of an OECD 437 and an OECD 438 Test with a similar mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Alcohols, C12-18, ethoxylated 68213-23-0	highly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	highly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Category 1 (irreversible effects on the eye)	30 s	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-methylisothiazol-3(2H)- one 2682-20-4	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

<b>Hazardous substances CAS-No.</b>	<b>Result</b>	<b>Type of study / Route of administration</b>	<b>Metabolic activation / Exposure time</b>	<b>Species</b>	<b>Method</b>
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	in vitro mammalian chromosome aberration test	without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-methylisothiazol-3(2H)- one 2682-20-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-methylisothiazol-3(2H)- one 2682-20-4	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-methylisothiazol-3(2H)- one 2682-20-4	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-methylisothiazol-3(2H)- one 2682-20-4	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-methylisothiazol-3(2H)- one 2682-20-4	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOAEL P 300 mg/kg NOAEL F1 300 mg/kg	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOAEL P 350 mg/kg NOAEL F1 350 mg/kg NOAEL F2 350 mg/kg	three- generation study	oral: feed	rat	not specified
2-methylisothiazol-3(2H)- one 2682-20-4	NOAEL P 200 ppm NOAEL F1 200 ppm NOAEL F2 200 ppm	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOAEL 225 mg/kg	oral: gavage	90 days once daily, 5 times a week	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOAEL 125 mg/kg	oral: gavage	28 d daily	rat	not specified
2-methylisothiazol-3(2H)- one 2682-20-4	NOAEL 60 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

**Aspiration hazard:**

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alcohols, C12-18, ethoxylated 68213-23-0	LC50	1,2 mg/l	48 h	Leuciscus idus	DIN 38412-15
Alcohols, C12-18, ethoxylated 68213-23-0	NOEC	0,32 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	LC50	7,1 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOEC	0,14 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Benzenesulfonic acid, C10- 13-alkyl derivs., sodium salts 68411-30-3	NOEC	> 0,43 - 0,89 mg/l	28 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 210 (fish early lite stage toxicity test)
Benzenesulfonic acid, C10- 13-alkyl derivs., sodium salts 68411-30-3	LC50	1,67 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sodium metaborate, anhydrous 7775-19-1	LC50	455 mg/l	96 h	Pimephales promelas	other guideline:
Sodium metaborate, anhydrous 7775-19-1	NOEC	36,6 mg/l	34 d	Danio rerio (reported as Brachydanio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
2-methylisothiazol-3(2H)-one 2682-20-4	LC50	4,77 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alcohols, C12-18, ethoxylated 68213-23-0	EC50	3 mg/l	24 h	Daphnia magna	not specified
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	EC50	7,2 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzenesulfonic acid, C10-13- alkyl derivs., sodium salts 68411-30-3	EC50	2,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sodium metaborate, anhydrous 7775-19-1	EC50	520 mg/l	48 h	Ceriodaphnia dubia	other guideline:
2-methylisothiazol-3(2H)-one 2682-20-4	EC50	0,93 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alcohols, C12-18, ethoxylated 68213-23-0	NOEC	0,24 mg/l			OECD 211 (Daphnia magna, Reproduction Test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOEC	0,72 mg/l	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
Benzenesulfonic acid, C10-13- alkyl derivs., sodium salts	NOEC	1,18 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

68411-30-3					
Sodium metaborate, anhydrous 7775-19-1	NOEC	61,6 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2-methylisothiazol-3(2H)-one 2682-20-4	NOEC	0,04 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alcohols, C12-18, ethoxylated 68213-23-0	EC50	3,1 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	EC50	27 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOEC	0,93 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC50	127,9 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	2,4 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sodium metaborate, anhydrous 7775-19-1	EC50	299,6 mg/l	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sodium metaborate, anhydrous 7775-19-1	EC10	200,12 mg/l	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-methylisothiazol-3(2H)-one 2682-20-4	NOEC	0,03 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-methylisothiazol-3(2H)-one 2682-20-4	EC50	0,22 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alcohols, C12-18, ethoxylated 68213-23-0	EC0	10.000 mg/l	16 h		not specified
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	EC0	360 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC0	26 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
2-methylisothiazol-3(2H)-one 2682-20-4	EC 50	41 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

## 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Alcohols, C12-18, ethoxylated 68213-23-0	readily biodegradable	aerobic	79 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	readily biodegradable	aerobic	77 - 79 %	28 d	EU Method C.4-E (Determination of the "Ready" Biodegradability: Closed Bottle Test)
Benzenesulfonic acid, C10-13- alkyl derivs., sodium salts 68411-30-3	readily biodegradable	aerobic	85 %	29 d	OECD Guideline 301 B (Ready Biodegradability: CO <sub>2</sub> Evolution Test)
2-methylisothiazol-3(2H)-one 2682-20-4	inherently biodegradable	aerobic	97 %	48 h	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-methylisothiazol-3(2H)-one 2682-20-4	readily biodegradable	aerobic	> 70 %	28 d	OECD Guideline 309 (Aerobic Mineralisation in Surface Water Simulation Biodegradation Test)

### 12.3. Bioaccumulative potential

Does not bioaccumulate.

No substance data available.

### 12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	0,3	23 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method)
Benzenesulfonic acid, C10- 13-alkyl derivs., sodium salts 68411-30-3	3,32		not specified
Sodium metaborate, anhydrous 7775-19-1	-1,09	22 °C	EU Method A.8 (Partition Coefficient)
2-methylisothiazol-3(2H)-one 2682-20-4	-0,5		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

### 12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Alcohols, C12-18, ethoxylated 68213-23-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Sodium metaborate, anhydrous 7775-19-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-methylisothiazol-3(2H)-one 2682-20-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### 12.6. Other adverse effects

Other adverse effects of this product for the environment are not known to us.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Product disposal:**

Dispose of in accordance with local and national regulations.

**Disposal of uncleaned packages:**

Completely empty containers can be disposed of with the municipal waste.

**Waste code**

20 01 30: Municipal wastes, separately collected fractions, detergents containing no dangerous substances

**SECTION 14: Transport information****14.1. UN number**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

**14.2. UN proper shipping name**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

**14.3. Transport hazard class(es)**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

**14.4. Packing group**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

**14.5. Environmental hazards**

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

**14.6. Special precautions for user**

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Declaration of ingredients according to Detergent Regulation 648/2004/EC**

5 - 15 %	anionic surfactants
< 5 %	non-ionic surfactants
	soap
Further ingredients	Enzymes
	Perfumes
	Citronellol
	Geraniol
	preservation agents
	Benzisothiazolinone
	Methylisothiazolinone

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
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.  
H330 Fatal if inhaled.  
H361d Suspected of damaging the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s):

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