



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

### 1.1. Product identifier

Product code : **MEDIUM WASHING POWDER**

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

Powdered laundry detergent for washing machine and by hand  
Private households (= general public = consumers)[SU21], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against  
Do not use for purposes other than those listed

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

ANVERTEX Products GmbH  
Langmaar 12  
41238 Mönchengladbach  
Tel.: +49 (0) 2166 86810  
Fax: +49 (0) 2166 868121  
E-Mail: info2@anvertex.de

### 1.4. Emergency telephone number

+49 2166 86810

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

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

Pictograms:  
GHS07

Hazard Class and Category Code(s):  
Eye Irrit. 2

Hazard statement Code(s):  
H319 - Causes serious eye irritation.  
Classified according to Det Net/161 report.



2.1.2 Classification according to Directive 1999/45/EEC:

Classification:  
 Nonhazardous

Nature of special risks attributed:  
 None in particular.  
 If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours.

**2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):  
 GHS07 - Warning



Hazard statement Code(s):  
 H319 - Causes serious eye irritation.

Precautionary statements:  
 General  
 P101 - If medical advice is needed, have product container or label at hand.  
 P102 - Keep out of reach of children.  
 Response  
 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.

Contains (Reg.EC 648/2004):  
 5% < 15% oxygen-based bleaching agents, zeolites, < 5% optical brighteners, perfumes, anionic surfactants, non-ionic surfactants, soap, polycarboxylates.

**2.3. Other hazards**

The substance / mixture does NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII  
 No information on other hazards

**SECTION 3. Composition/information on ingredients**

**3.1 Substances**

Irrilevant

**3.2 Mixtures**

Refer to paragraph 16 for full text of risk phrases and hazard statements

| Substance                      | Concentration | Classification  | Index        | CAS        | EINECS    | REACH            |
|--------------------------------|---------------|---|--------------|------------|-----------|------------------|
| Sodium carbonate               | > 10 <= 20%   | Xi; R36<br>Eye Irrit. 2, H319   | 011-005-00-2 | 497-19-8   | 207-838-8 | 01-2119485498-19 |
| sodium carbonate peroxyhydrate | > 5 <= 10%    | O; R8 Xn; R22 Xi; R41<br>Ox. Sol. 3, H272;<br>Acute Tox. 4, H302;<br>Eye Dam. 1, H318 | N.A.         | 15630-89-4 | 239-707-6 | 01-2119457268-30 |
| Silicic acid, sodium salt      | > 1 <= 5%     | Xi; R37/38 Xi; R41<br>Skin Irrit. 2, H315;  | N.D.         | 1344-09-8  | 215-687-4 | 01-2119448725-31 |



| Substance   | Concentration | Classification   | Index | CAS         | EINECS    | REACH                 |
|---|---------------|--|-------|-------------|-----------|-----------------------|
|   |               | Eye Dam. 1, H318;<br>STOT SE 3, H335   |       |             |           |                       |
| Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts         | > 1 <= 5%     | Xn; R22 Xi; R38 Xi;<br>R41<br>Acute Tox. 4, H302;<br>Skin Irrit. 2, H315; Eye Dam. 1, H318 | N.A.  | 68411-30-3  | 270-115-0 | 01-2119489428-22-0046 |
| Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO) | > 1 <= 5%     | Xn; R22 Xi; R41<br>Acute Tox. 4, H302;<br>Eye Dam. 1, H318                                 | N.A.  | 160901-19-9 | 931-954-4 | N.A.                  |

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

#### Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

#### Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

#### Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

No data available.

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

If you experience harmful symptoms, contact a physician immediately.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### Advised extinguishing agents:

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

#### Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

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

No data available.

### 5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction



You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)  
Keep containers cool with water spray

## **SECTION 6. Accidental release measures**

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

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke  
Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.  
Eliminate all unguarded flames and possible sources of ignition. No smoking.  
Provision of sufficient ventilation.  
Evacuate the danger area and, in case, consult an expert.

### **6.2. Environmental precautions**

Contain spill  
Inform the competent authorities.  
Discharge the remains in compliance with the regulations

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

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing  
Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

### **6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

## **SECTION 7. Handling and storage**

### **7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors. See also paragraph 8 below.  
At work do not eat or drink.

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

Keep in original container closed tightly. Do not store in open or unlabeled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Keep away from combustible materials.  
Store in a cool place, away from sources of heat and direct exposure of sunlight.

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

Private households (= general public = consumers):  
Store in cool and dry places.

Public domain (administration, education, entertainment, services, craftsmen):  
Handle with care.



Store in ventilated place away from heat sources,  
Keep the container tightly closed.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

No data available on the mixture.

Related to contained substances:

Sodium carbonate  
EXPOSURE LIMIT VALUES  
sodium carbonate  
SAEL (Solvay Acceptable Exposure Limit) 2007  
TWA = 10 mg/m<sup>3</sup>  
U.S.. ACGIH Threshold Limit Values  
Remarks: no established

sodium carbonate peroxyhydrate  
DNEL: End-use: Workers  
Route of Exposure: Skin  
Potential health consequences: May cause irritation to eyes and skin.  
Value: 12.8 mg / cm<sup>2</sup>  
Acute, local effects  
DNEL: End-use: Workers  
Route of Exposure: Inhalation  
Value: 5 mg / m<sup>3</sup>  
In the long term, local effects  
DNEL: End-Use: Using Consumer  
Route of Exposure: Skin  
Potential health consequences: May cause irritation to eyes and skin.  
Value: 6.4 mg / cm<sup>2</sup>  
Acute, local effects  
PNEC: Fresh Water  
Value: 0.035 mg / l  
PNEC: Seawater  
Value: 0.035 mg / l  
PNEC: Using Batch / release  
Value: 0.035 mg / l  
PNEC STP  
Value: 16.24 mg / l

Silicic acid, sodium salt  
DN (M) for workers  
chronic systemic effects, contact skin/eyes, DNELS 1.59 (mg/kg bw/day), toxic for continuous dosing  
chronic systemic effects, inhalation, DNELS 5.61 (mg/m), toxic for continuous dosing  
DN (M) for the consumer  
chronic systemic effects, contact skin/eyes, DNELS 0.8 (mg/kg bw/day), toxic for continuous dosing  
chronic systemic effects, inhalation, 1.38 DNEL (mg/m), toxic for continuous dosing  
chronic systemic effects, ingesting, DNELS 0.8 (mg/kg bw/day), toxic for continuous dosing  
PNEC descriptors:  
Aquatic freshwater PNEC-7.5 mg/l  
Aquatic-acqua marina PNEC 1 mg/l  
Aquatic-discontinuous PNEC release 7.5 mg/l  
PNEC sewage treatment plant 348 mg/l

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts  
Benzenesulfonic acid, C10-13-alkyl derivs., Sodium salts  
Workers, Dermal, Acute exposure / short term - Systemic effect: Not applicable / not applicable



Workers, Inhalation, Acute exposure / short term – Systemic effect: Not applicable / not applicable  
Workers, Dermal, Acute exposure / short term - Local effects: Not applicable / not applicable  
Workers, Inhalation, Acute exposure / short term - Local effects: Not applicable / not applicable  
Workers, Dermal, Exposure to long-term - a whole: 170 mg / kg in reference to body weight and day  
Workers, inhalation, Long-term exposure – Systemic effect: 12 mg/m<sup>3</sup>  
Workers, Dermal, Exposure to long-term - Local effects: Not applicable / not applicable  
Workers, inhalation, Long-term exposure - Local effects: 12 mg/m<sup>3</sup>  
Consumers, Dermal, Exposure Acute / short-term - Systemic effect: Not applicable / not applicable  
Consumers, Inhalation, Acute exposure / short term - Systemic effect: Not applicable / not applicable  
Consumers, Oral Exposure Acute / short-term - Systemic effect: Not applicable / not applicable  
Consumers, Dermal, Exposure Acute / short-term - Local effects: Not applicable / not applicable  
Consumers, Inhalation, Acute exposure / short term - Local effects: Not applicable / not applicable  
Consumers, Dermal, Exposure to long-term - Systemic effects: 85 mg / kg in reference to body weight and day  
Consumers, Inhalation, Long-term exposure - Systemic effects: 3 mg/m<sup>3</sup>  
Consumers, Oral, Long-term exposure - systemic effects: 0.85 mg / kg in reference to body weight and day  
Consumers, Dermal, Exposure to long-term - Local effects: Not applicable / not applicable  
Consumers, Inhalation, Long-term exposure - Local effects: 3 mg/m<sup>3</sup>  
The predicted no effect concentrations (PNEC)  
Benzenesulfonic acid, C10-13-alkyl derivs., Sodium salts  
Fresh water: 0.268 mg / l  
Sea Water: 0.0268 mg / l  
Temporary escape: 0.0167 mg / l  
Treatment plant: 3.43 mg / l  
Sediment of fresh water: 8.1 mg / kg in reference to the dry mass  
Marine sediment: 8.1 mg / kg in reference to the dry mass  
Soil: 35 mg / kg in reference to the dry mass  
Food: Not applicable / not applicable

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)  
No data available

## 8.2. Exposure controls

Appropriate engineering controls:  
Private households (= general public = consumers):  
Open with caution. Close the container immediately after its use.  
Adopt the appropriate protective measures.

Public domain (administration, education, entertainment, services, craftsmen):  
Open with caution. Close the container immediately after its use.  
Adopt the appropriate protective measures.

Individual protection measures:

(a) Eye / face protection  
Not needed for normal use.

(b) Skin protection

(i) Hand protection  
Not needed for normal use.

(ii) Other  
Wear normal work clothing.

(c) Respiratory protection  
Not needed for normal use.



(d) Thermal hazards  
 No hazard to report

Environmental exposure controls:  
 Use according to good working practices to avoid pollution into the environment.

## SECTION 9. Physical and chemical properties

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

| Physical and chemical properties             | Value          | Determination method |
|--|----------------|----------------------|
| Appearance                                   | White powder   |                      |
| Odour  | Scented        |                      |
| Odour threshold                              | not determined |                      |
| pH   | sol. 1% 10.8   |                      |
| Melting point/freezing point                 | not determined |                      |
| Initial boiling point and boiling range      | not determined |                      |
| Flash point                                  | nonflammable   | ASTM D92             |
| Evaporation rate                             | irrelevant     |                      |
| Flammability (solid, gas)                    | nonflammable   |                      |
| Upper/lower flammability or explosive limits | nonflammable   |                      |
| Vapour pressure                              | not determined |                      |
| Vapour density                               | not determined |                      |
| Relative density                             | 650 – 750 g/L  |                      |
| Solubility                                   | in water       |                      |
| Water solubility                             | Complete       |                      |
| Partition coefficient: n-octanol/water       | not determined |                      |
| Auto-ignition temperature                    | irrelevant     |                      |
| Decomposition temperature                    | not determined |                      |
| Viscosity                                    | not determined |                      |
| Explosive properties                         | irrelevant     |                      |
| Oxidising properties                         | irrelevant     |                      |

### 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

Related to contained substances:  
 Sodium carbonate  
 Decomposes by reaction with strong acids.

sodium carbonate peroxyhydrate  
 Stable under recommended storage conditions.

Silicic acid, sodium salt  
 May react with metals. Potential for exothermic reactions in the presence of acids and/or other incompatible materials.  
 Reacts with acids with heat release.



May react with amphoteric metal with hydrogen development.

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

There are no hazardous reactions

### 10.4. Conditions to avoid

Keep away from heat sources and direct sunlight.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

No toxicological tests have been performed on the mixture.

- (a) acute toxicity: not applicable
- (b) skin corrosion/irritation: not applicable
- (c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.
- (d) respiratory or skin sensitization: not applicable
- (e) germ cell mutagenicity: not applicable
- (f) carcinogenicity: not applicable
- (g) reproductive toxicity: not applicable
- (h) specific target organ toxicity (STOT) single exposure: not applicable
- (i) specific target organ toxicity (STOT) repeated exposure: not applicable
- (j) aspiration hazard: not applicable

Related to contained substances:

Sodium carbonate  
ACUTE TOXICITY  
ACUTE TOXICITY ORAL: LD50 rat > 2,800 mg / kg  
ACUTE INHALATION TOXICITY: LC50, 2 h - guinea pig - 0.8 mg / L  
CL50, 2h - mouse - 1.2 mg / L  
CL50, 2h - rat - 2.3 mg / L  
ACUTE DERMAL TOXICITY : LD50, rabbit, 2,000 mg / kg  
CORROSION / HITTITES SKIN: rabbit, no reaction of the skin.  
Human experience, no skin irritation.  
SERIOUS EYE DAMAGE / SERIOUS EYE IRRITATION: Rabbit, irritant effects.  
SKIN OR RESPIRATORY SENSITIZATION: No data available.





MUTAGENICITY: No effect.  
CARCINOGENICITY: No data available.  
REPRODUCTIVE TOXICITY: Oral (with power probe), 10 days, the various species, 179 mg / kg. it does not teratogenic effects in animal experiments.  
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: No data available.  
Related to contained substances:  
LD50 (rat) Oral (mg/kg body weight) = 2800  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

sodium carbonate peroxyhydrate

Acute toxicity

Remark: Harmful if swallowed.

Sodium Percarbonate:

DL50/Orale/ratto: 1,034 mg / kg

CL50/Inalazione/topo: 1.2 mg / l

Comments: sodium carbonate

LC50 / inhalation / 4 h / rat:> 0.17 mg / l

Comments: HYDROGEN PEROXIDE IN AQUEOUS SOLUTION

DL50/ Dermal /rabbits:> 2,000 mg / kg

Irritation and corrosion

Skin: Mild skin irritation

Comments: May cause skin irritation in susceptible persons. Prolonged or repeated

Skin can dry out the skin and cause irritation. Prolonged contact with skin may damage and produce dermatitis.

Eyes: Irritating

Risk of serious damage to eyes.

mucous:

Comments: May cause irritation to mucous membranes. Nosebleeds

sensitization

guinea pig / OECD Test Guideline 406: Not a sensitizer.

Long-term toxicity

carcinogenicity

IARC: It is assumed that it is not carcinogenic.

More information

Remarks: Ingestion can cause nausea, vomiting, sore throat, stomach and can lead eventually to bowel perforation.

LD50 (rat) Oral (mg/kg body weight) = 1034

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 0,17

Silicic acid, sodium salt

Acute toxic

ingestion, LD50 3400 mg/kg bw, rat

inhalation LC50 > 2.06 g/m<sup>3</sup>, rat

skin/eye contact, LD50 > 5000 mg/kg bw, rat

Toxic for reproduction:

effects on fertility, NOAEL > 159 mg/kg bw/d, rat

development of damage to the fetus, NOAEL > 200 mg/kg bw/d, mouse

STOT repeated exposure

ingestion, NOAEL > 159 mg/kg bw/d, rat

LD50 (rat) Oral (mg/kg body weight) = 3400

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 2,06

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts

Acute toxicity

Acute oral toxicity

LD50 oral rat:> 2,000 mg / kg; OECD Test Guideline 401

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

LD50 rat:> 300 to 2,000 mg / kg; OECD Test Guideline 401

Target Organs: Gastrointestinal tract



Symptoms: Drowsiness, diarrhea, difficulty breathing  
Substance to be tested: benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts,  $\geq 65\%$ . Harmful if swallowed.  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
LD50 rat:  $> 2,000$  mg / kg; OECD Test Guideline 401  
Target Organs: Gastrointestinal tract  
Symptoms: Drowsiness, diarrhea, difficulty breathing  
Substance to be tested: benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts,  $< 65\%$  According to data available to the classification criteria are not met.  
Acute toxicity by inhalation benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
the test does not need justification: negligible or unlikely routes of exposure  
Acute dermal toxicity benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
LD50 rat:  $> 2,000$  mg / kg; OECD Test Guideline 402  
Symptoms: Local effects, crust formation (literature value)  
According to available data the classification criteria are not met.  
Skin corrosion / irritation S  
kin irritation benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
rabbit: irritating OECD Test Guideline 404  
(literature value)  
Causes skin irritation.  
Serious eye damage / serious eye irritation  
Irritating to eyes  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
Rabbit: May cause irreversible eye damage.; OECD Test Guideline 405  
(Value of literature)  
Causes severe eye injury.  
Respiratory or skin sensitization  
Sensitization  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
Maximisation test guinea pig: not sensitizing; OECD Test Guideline 406  
Based on the available data the classification criteria are not met.  
Germ cell mutagenicity  
Genotoxicity in vitro  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
In vitro assays revealed no mutagenic effects  
(Value of literature)  
In vivo genotoxicity  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
In vivo studies revealed no mutagenic effects  
(Value of literature)  
Observations  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
Based on the available data the classification criteria are not met.  
Carcinogenicity  
Carcinogenicity  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
The substance turned out to be non-genotoxic, so we should not expect a carcinogenic potential.  
Reproductive Toxicity  
Reproductive Toxicity  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
Rat, oral, 2 years  
NOAEL ((parent)): 350 mg / kg (in reference to body weight and day)  
NOAEL (F1): 350 mg / kg (in reference to body weight and day)  
NOAEL (F2): 350 mg / kg (in reference to body weight and day)  
(Value of literature)  
observation of group  
Observation of reproductive toxicity  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
Based on the available data the classification criteria are not met.  
Teratogenicity



benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
Rat, oral, 20 days  
NOAEL: 300 mg / kg (in reference to body weight and day)  
NOAEL (pregnant female): 300 mg / kg (in reference to body weight and day)  
(Value of literature)

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
mice, oral, 20 days  
NOAEL: 300 mg / kg (in reference to body weight and day)  
NOAEL (pregnant female): 2 mg / kg (in reference to body weight and day)  
(Value of literature)

Observations-Teratogenicity  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
According to data available the classification criteria are not met.  
Specific target organ toxicity (STOT) - single exposure  
Observations

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
The substance or mixture is not classified as an organ toxicant target for single exposure.  
Specific target organ toxicity (STOT) - repeated exposure  
Observations

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
The substance or mixture is not classified as a target organ toxicant  
Specifically, repeated exposure.  
Repeated dose toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
Rat, oral, 28 days  
NOAEL: 125 mg / kg (in reference to body weight and day)  
LOAEL: 250 mg / kg (in reference to body weight and day)  
Target organs: blood, liver, heart, thymus  
Symptoms: limited increase in body weight, diarrhea  
(Value of literature)

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
rat feeding study, 6 months  
NOAEL: 40 mg / kg (in reference to body weight and day)  
LOAEL: 115 mg / kg (in reference to body weight and day)  
Target Organs: Blood, Kidney, blind  
Symptoms: limited increase in body weight, diarrhea  
(Value of literature)

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
rat drinking water; 9 months  
NOAEL: 85 mg / kg (in reference to body weight and day)  
LOAEL: 145 mg / kg (in reference to body weight and day)  
Target Organs: Blood  
Symptoms: limited increase in body weight  
Aspiration hazard  
Aspiration toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
not applicable  
Toxicological information  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:  
Toxicokinetics  
it is assumed that the substance is bioavailable for oral intake.  
the substance is metabolized and eliminated secretion  
the substance is not well absorbed through the skin

LD50 (rat) Oral (mg/kg body weight) = 1020



LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)

Acute oral toxicity:

LD50 rat: > 300-2,000 mg/kg

Group observation

Test values/own bibliographic values

Harmful if swallowed.

Acute toxicity by inhalation:

No data available

Acute toxicity, dermal:

LD50 rabbit: > 2,000 mg/kg;

Group observation

(value of literature)

On the basis of available data classification criteria are not met.

Corrosion/irritation

Irritating to the skin:

Rabbit: non-irritant

Group observation

Test values/own bibliographic values

On the basis of available data classification criteria are not met.

Serious eye injury/serious eye irritation

Irritating to the eyes:

Rabbit: May cause irreversible damage to the eyes.

Test values/own bibliographic values

Group observation

Causes serious eye injuries.

Respiratory or skin sensitisation

Sensitisation:

Guinea pig Maximisation Test India: not a sensitizer

Group observation

(value of literature)

On the basis of available data classification criteria are not met.

Mutagenicity germ cell tumor

Genotoxicity in vitro:

In vitro tests revealed no mutagenic effects

Group observation

Test values/own bibliographic values

In vivo: Genotoxicity

In vivo tests revealed no mutagenic effects

Group observation

(value of literature)

Comments:

On the basis of available data classification criteria are not met.

Email: Cancerogenicity

The substance turned out to be not genotoxic, so you don't have to wait for a potential carcinogen.

Group observation

(value of literature)

Comments:

On the basis of available data classification criteria are not met.

Reproductive toxic:

Study of toxicity for reproduction on two generations: rat

NOAEL ((parents)): > 250 mg/kg (in reference to body weight and day)

NOAEL (F1): > 250 mg/kg (in reference to body weight and day)

NOAEL (F2): > 250 mg/kg (in reference to body weight and day)

Group observation

(value of literature)

Reproductive Toxicity comments:

On the basis of available data classification criteria are not met.



Teratogenicity

rat; Oral

NOAEL: > 50 mg/kg (in reference to body weight and day)

NOAEL (gravid female): 50 mg/kg (in reference to body weight and day);

Study of toxicity for reproduction on two generations

Group observation

(value of literature)

rat; The Dermis

NOAEL: > 250 mg/kg (in reference to body weight and day)

NOAEL (gravid female): 250 mg/kg (in reference to body weight and day);

Study of toxicity for reproduction on two generations

Group observation

(value of literature)

-Teratogenicity Comments:

On the basis of available data classification criteria are not met.

Specific toxicity to target organs (STOT)-single exposure

Comments:

The substance or mixture is classified as intoxicating as a target organ for single exposure.

Specific toxicity to target organs (STOT) – repeated exposure

Comments:

The substance or mixture is classified as intoxicating to a specific target organ for repeated exposure.

Repeated dose toxicity:

rat; Oral; 2 years

NOAEL: 50 mg/kg (in reference to body weight and day)

Target organs: Heart, liver, kidney

Symptoms: increased body weight, limited increase in relative weights of organs.

Group observation

(value of literature)

Danger in case of aspiration

Toxicity by aspiration:

not applicable

LD50 (rat) Oral (mg/kg body weight) = 300

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

## SECTION 12. Ecological information

### 12.1. Toxicity

The product has not been tested for environmental impact in the event of accidental release in the environment.

Related to contained substances:

Sodium carbonate

TOXICITY : Fish, *Lepomis macrochirus*, LC50, 96h, 300 mg / l

Crustacean, *Ceriodaphnia dubia*-, EC50, 48h, 200 -227 mg / l

Related to contained substances:

C(E)L50 (mg/l) = 200

sodium carbonate peroxyhydrate

Toxicity to fish:

Remarks:

Harmful to aquatic organisms.

The environmental risk is limited only to the properties of the product.

Toxicity to fish (Components)

Sodium Percarbonate: LC50: 70.7 mg / l

Exposure time: 96 h

Species: *Pimephales promelas* (Chub American)

Toxicity to daphnia and other aquatic invertebrates:

Remarks:



Harmful to aquatic organisms.  
Toxicity to daphnia and other aquatic invertebrates. (Components)  
Sodium Percarbonate: EC50: 4.9 mg / l  
Exposure time: 48 h  
Species: Daphnia  
C(E)L50 (mg/l) = 4,9

Silicic acid, sodium salt  
Acute toxic  
fish, Brachydanio rerio, LC50 (83d) 1108 mg/l  
fish, Oncorhynchus mykiss, LC50 (83d) 260-310 mg/l  
fish, Brachydanio rerio, NOAEC (83d, mortality) 348 mg/l  
aquatic invertebrates, Daphnia magna EC50 (48 h) 1700 mg/l  
aquatic plants  
Scenedesmus subspicatus, EC50 (72 h IC50, biomass) 207 mg/l  
Scenedesmus subspicatus, EC50 (growth rate charts) 345.4 mg/l  
microorganisms in wastewater  
Prochlorococcus, EC0 (6:0 pm) (1) (2) > 10000 mg/l  
Prochlorococcus, EC0 (6:0 pm) (3) (4) > 1000 mg/l  
Prochlorococcus, EC0 (30 mn) 3454 mg/l  
Chronic toxic  
fish, comparable to tests on desmodesmus subspicatus, EC0 207 mg/l  
algae, algae, NOEC/EC0 35 mg/l  
microorganisms in wastewater, Prochlorococcus, PNEC stp 348 mg/l  
C(E)L50 (mg/l) = 260

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts  
Toxicity to fish  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: LC50 (96 h) Lepomis macrochirus (Bluegill sunfish):> 1 - 10 mg / l, static test, U.S. EPA 1975 (value of literature)  
toxicity to fish - chronic toxicity  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: (28 d) Lepomis macrochirus (Bluegill sunfish):> 0.1 to 1 mg / l speed growth, 28 d; Ecosystem model (value of literature)  
toxicity to daphnia and other aquatic invertebrates.  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: (48 h) Daphnia magna (Water flea):> 1 - 10 mg / l, static test, OECD TG 202 (literature value)  
toxicity to daphnia and other aquatic invertebrates - Chronic toxicity  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: NOEC (32 d) Elimi:> 1 - 10 mg / l 32 d mortality; Ecosystem model; (literature value)  
toxicity to aquatic plants  
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: NOEC (28 d) Elodea canadensis:> 4 mg / l; Ecosystem model; (literature value)  
C(E)L50 (mg/l) = 0,2

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)  
Toxicity for fish:  
LC50 (96 h) Cyprinus carpio (CARP): 1-10 > mg/l; Flow-through test; OECD TG 203  
Test values/own bibliographic values group observation  
Toxicity to daphnia and other aquatic invertebrates:  
EC50 (48 h) Daphnia magna (water Flea): 1-10 > mg/l; Static test; OECD TG 202  
Test values/own bibliographic values  
Group observation  
Toxicity to aquatic plants:  
EC50 (72 h) Desmodesmus subspicatus (green algae): 1-10 > mg/l; Static test; OECD TG 201;  
Test values/own bibliographic values  
Group observation  
Toxicity to bacteria:  
EC50 activated sludge: 140 mg/l; Respiration inhibitor  
Group observation



(value of literature)  
C(E)L50 (mg/l) = 1

Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

No data available on the mixture.

Related to contained substances:

Sodium carbonate

ABIOTIC DEGRADATION

Water, hydrolyses.

Result: acid / base balance as a function of pH.

Products of degradation: carbon dioxide / bicarbonate / carbonate

BIODEGRADATION

Remarks: The methods for determining biodegradability are not applicable to non-organic substances.

sodium carbonate peroxyhydrate

biodegradability:

not applicable to inorganic

Chemical degradation:

The product decomposes into sodium carbonate and hydrogen peroxide, which neutralizes the carbon dioxide / bicarbonate / carbonate, water and oxygen

Silicic acid, sodium salt

Not applicable, the product of inorganic nature.

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts

Biodegradability

Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: Readily biodegradable.> 60%, 28 d; aerobic; OECD Test Guideline 301 B

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)

Rapidly biodegradable.; > 60%; 28 d; aerobic exercise; OECD TG 301 B

Test values/own bibliographic values

Group observation

### 12.3. Bioaccumulative potential

No data available on the mixture.

Related to contained substances:

Sodium carbonate

does not bioaccumulate.

sodium carbonate peroxyhydrate

Does not bioaccumulate.

Silicic acid, sodium salt

Based on available data excludes possibility of bioaccumulation.

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts

Bioaccumulation

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: fathead minnows (Chub American), 192 h; OECD Test Guideline 305 E (literature value) do not accumulate significantly in organisms.



Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)  
Bioaccumulation unlikely.  
(value of literature)

#### 12.4. Mobility in soil

No data available on the mixture.

Related to contained substances:

Sodium carbonate  
Air comments: N.A.  
Water comments: solubility  
Water comments: mobility  
Soil / sediment observations: not significant

sodium carbonate peroxyhydrate  
Water solubility: 140 g / l (20 °C)  
Does not adsorb in the soil.

Silicic acid, sodium salt  
In the event of accidental releases of the product, as well as intentional soil treatments, the product reacts with the acids and metal ions of multi-purpose soil, forming a gel waterproof. As a result of this reaction, not the further spread of the product into the soil.

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts  
Mobility  
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: soil / sludge settling slightly mobile in soils

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)  
No data available

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

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

#### 12.6. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648  
The surfactant (s) contain (s) in this formulation comply (ies) with the criteria set out in Regulation (EC) biodegradability/648/2004 on detergents. All supporting data shall be kept at the disposal of the competent authorities of the Member States and will be provided, at their explicit request or at the request of a manufacturer of the formulation, the above authority.

### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.  
Recover if possible. Operate according to local or national regulations

### SECTION 14. Transport information





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**14.1. UN number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

**14.2. UN proper shipping name**

None

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

None

**14.4. Packing group**

None

**14.5. Environmental hazards**

None

**14.6. Special precautions for user**

No data available.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

It is not intended to carry bulk

**SECTION 15. Regulatory information**

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

Regulation 648/2004/EC (detergents), Legislative Decree no. 3/2/1997 no. 52 (Classification, packaging and labeling of dangerous substances). Legislative Decree 14.3.2003 n. 65 (Classification, packaging and labeling of dangerous substances). Leg. 02/02/2002 n. 25 (Risks related to chemical agents at work). D.M. Working 26/02/2004 (Occupational exposure limit); DM 04/03/2007 (Implementation of Directive no. 2006/8/EC). Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n.790/2009.D.Lgs. September 21, 2005 n. 238 (Seveso Ter).

**15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

**SECTION 16. Other information**

**16.1. Other information**

Description of the sentences of risk set out in paragraph 3

R8 = Contact with combustible material may cause fire.

R22 = Harmful if swallowed.

R36 = Irritating to eyes.

R37 = Irritating to respiratory system.

R38 = Irritating to skin.

R41 = Risk of serious damage to eyes.

Description of the hazard statements exposed to point 3

H319 = Causes serious eye irritation.

H272 = May intensify fire; oxidiser.

H302 = Harmful if swallowed.

H318 = Causes serious eye damage.



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H315 = Causes skin irritation.

H335 = May cause respiratory irritation.

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

\*\*\* This Board cancels and replaces any previous edition.