SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : PREMIUM Washing powder **Berlin**

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

Laundry detergent in the washing machine
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 / Germany

1.4. Emergency telephone number

Tel.: + 49 2166 86810
Fax.: + 49 2166 86100
Email.: info@anvertex.de
www.anvertex.de

SECTION2. 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 DetNet/162 report

ANVERTEX®
Products GmbH
Langmaar 12
D-41238 Mönchengladbach
Tel.: + 49 2166 86810
Fax: + 49 2166 86100
E-Mail: info@anvertex.de

ANVERTEX®
Products GmbH
Langmaar 12
D-41238 Mönchengladbach
Tel.: +49 2166 86810
Fax: +49 2166 86100
E-Mail: info@anvertex.de

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,< 5% optical brighteners, perfumes, non-ionic surfactants, soap, zeolites, anionic surfactants, 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

SECTION3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Description INCI	Range %
Sodium sulfate	> 15
Sodium chloride	> 15
Sodium carbonate	15 - 30
Sodium carbonate peroxide	5 - 15
Sodium silicoaluminate	< 5
Sodium silicate	< 5
Aqua	< 5
Sodium Dodecylbenzenesulfonate	< 5
Laureth-7	< 5
Sodium soap	< 5
Sodium acrylate/maleate copolymer	< 5
Silicone Compound	present
Cellulose gum	present
Parfum	present
Sodium Diethylenetriamine Pentamethylene Phosphonate	present
Fluorescent Whitening Agent, bis- (triazinylamino)-stilbene disulphonic acid derivative	present
Colorants	present

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D-41238 Mönchengladbach
Tel.: +49 2166 86810
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SECTION4. 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).:
Take contaminated clothing Immediately off.
Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

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

If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

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

If eye irritation persists: Get medical advice/attention.
If medical advice is needed, have product container or label at hand.

SECTION5. 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

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D-41238 Mönchengladbach
Tel.: +49 2166 86810
Fax: +49 2166 86100
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halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)
Keep containers cool with water spray

SECTION6. 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

SECTION7. Handling and storage

7.1. Precautions for safe handling

At work do not eat or drink.
See also paragraph 8 below.

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.
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.

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Langmaar 12
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Fax: + 49 2166 86100
E-Mail: info@anvertex.de

SECTION8. Exposure controls/personal protection

8.1. Control parameters

No data available on the mixture.

Related to contained substances:

Sodium carbonate:
SAEL (Solvay Acceptable Exposure Limit) 2007
TWA = 10 mg/m3
US. ACGIH Threshold Limit Values
Osservazioni : nessun stabilito

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 ²
Acute, local effects
DNEL: End-use: Workers
Route of Exposure: Inhalation
Value: 5 mg / m³
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 ²
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

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Products GmbH
Langmaar 12
D-41238 Mönchengladbach
Tel.: +49 2166 86810
Fax: +49 2166 86100
E-Mail: info@anvertex.de

Workers, inhalation, Long-term exposure – Systemic effect: 12 mg/m3
Workers, Dermal, Exposure to long-term - Local effects: Not applicable / not applicable
Workers, inhalation, Long-term exposure - Local effects: 12 mg/m3
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/m3
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/m3
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

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.

SECTION9. Physical and chemical properties

ANVERTEX®
Products GmbH
Langmaar 12
D-41238 Mönchengladbach
Tel.: +49 2166 86810
Fax: +49 2166 86100
E-Mail: info@anvertex.de

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	White powder with blue granules	
Odour	characteristic	
Odour threshold	not determined	
pH	1% solution 10.8-11.3	
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	not determined	
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.

SECTION10. 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.

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Products GmbH
Langmaar 12
D-41238 Mönchengladbach
Tel.: +49 2166 86810
Fax: +49 2166 86100
E-Mail: info@anvertex.de

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

No one in particular.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION11. Toxicological information

11.1. Information on toxicological effects

No toxicological tests have been performed on the mixture.

(a) acute toxicity: not applicable
(b) skin corrosicn/irritationnot 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 exposurenot 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.

sodium carbonate peroxyhydrate:
Acute toxicity
Remark: Harmful if swallowed.

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Fax: +49 2166 86100
E-Mail: info@anvertex.de

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.

Silicic acid, sodium salt:
Acute toxic
ingestion, LD50 3400 mg/kg bw, rat
inhalation LC50 > 2.06 g/m3, 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

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, >=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)

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Products GmbH
Langmaar 12
D-41238 Mönchengladbach
Tel.: +49 2166 86810
Fax: +49 2166 86100
E-Mail: info@anvertex.de

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

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Tel.: +49 2166 86810
Fax: +49 2166 86100
E-Mail: info@anvertex.de

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

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

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D-41238 Mönchengladbach
Tel.: +49 2166 86810
Fax: +49 2166 86100
E-Mail: info@anvertex.de

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

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Products GmbH
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D-41238 Mönchengladbach
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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

SECTION12. 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

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

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

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts:
Toxicity to fish

ANVERTEX®
Products GmbH
Langmaar 12
D-41238 Mönchengladbach
Tel.: +49 2166 86810
Fax: +49 2166 86100
E-Mail: info@anvertex.de

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)

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

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.

12.4. Mobility in soil

No data availab e 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

12.5. Results of PBT and vPvB assessment

The substance / mixture does NOT contains 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.

SECTION13. 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

ANVERTEX®
Products GmbH
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Fax: +49 2166 86100
E-Mail: info@anvertex.de

SECTION14. Transport information

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

SECTION15. Regulatory information

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

Reg. 648/2004/EC (detergents)
Decree 2/2/2002 n. 25 (risks related to chemical agents at work)
D.M. 2/26/2004 Work (occupational exposure limits)
D.M. 4/3/2007 (implementation of Directive 2006/8/EC)
Regulation (EC) No 1907/2006 (REACH)
Regulation (EC) no 1272/2008 (CLP)
Regulation (EC) no 790/2009, 2012/18/EU
Directive (cd. Seveso III)
REGULATION (EU) No 1357/2014 - waste:
HP4 - Irritant — skin irritation and eye damage

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION16. Other information

16.1. Other information

Points modified compared to previous release: 1.3. Details of the supplier of the safety data sheet, 1.4. Emergency telephone number , 2.1. Classification of the substance or mixture, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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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.
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.