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

1.1. Product identifier
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1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/preparation
Washing and cleaning products (including solvent based products)

1.3. Details of the supplier of the safety data sheet
Address:
Chemische Fabrik Dr. Weigert GmbH & Co. KG
Mühlenhagen 85
D-20539 Hamburg
Telephone no. +49 40 789 60 0
Fax no. +49 40 789 60 120
www.drweigert.com

E-mail address of person responsible for this SDS:
sida@drweigert.de

1.4. Emergency telephone number
GBK/ Infotrac: (USA domestic) 1 800 535 5053 or international +1 352 323 3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (Regulation (EC) No. 1272/2008)
Classification (Regulation (EC) No. 1272/2008)
Met. Corr. 1 H290
Skin Corr. 1A H314
Eye Dam. 1 H318
STOT SE 3 H335

2.2. Label elements
Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

Signal word
Danger

Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor. Dispose only when container is empty and closed. For disposal of product residues, refer to Safety Data Sheet.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)
contains sodium hydroxide; disodium metasilicate pentahydrate

2.3. Other hazards
No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

disodium metasilicate pentahydrate
CAS No. 10213-79-3
EINECS no. 229-912-9
Registration no. 01-2119449811-37
Concentration >= 10 < 25 %

Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1B H314
STOT SE 3 H335
Eye Dam. 1 H318
Met. Corr. 1 H290

sodium carbonate
CAS No. 497-19-8
EINECS no. 207-838-8
Registration no. 01-2119485498-19
Concentration >= 10 < 25 %

Classification Xi, R36

Classification (Regulation (EC) No. 1272/2008)
Eye Irrit. 2 H319

sodium hydroxide
CAS No. 1310-73-2
EINECS no. 215-185-5
Registration no. 01-2119457892-27
Concentration >= 25 < 50 %

Classification C, R35

Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1A H314
Met. Corr. 1 H290

Concentration limits (Regulation (EC) No. 1272/2008)
Skin Corr. 1B H314 <= 2 < 5
Skin Corr. 1A H314 >= 5
Skin Irrit. 2 H315 <= 0,5 < 2
Eye Irrit. 2 H319 <= 0,5 < 2
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SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Remove contaminated clothing immediately and dispose of safely. In any case show the physician the Safety Data Sheet.

After inhalation
Ensure supply of fresh air. When dust is intensively inhaled, seek medical help immediately.

After skin contact
Wash off immediately with soap and water. Take medical treatment.

After eye contact
Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion
If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid
First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / hazards
In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Extinguishing measures to suit surroundings

Non Suitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting
Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

Other information
Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
 Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions
Do not discharge into the drains/surface waters/groundwater. Knock down dust with water spray jet.

6.3. Methods and material for containment and cleaning up
Pick up mechanically. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections
Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Avoid the formation and deposition of dust. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep in original packaging, tightly closed. Provide solvent-resistant and impermeable floor.

Storage class according to TRGS 510
Storage class according to 8B Non-combustible corrosive hazardous substances
TRGS 510

7.3. Specific end use(s)
no data

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Other information
Contains no substances with occupational exposure limit values.

8.2. Exposure controls
General protective and hygiene measures
Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection
Use breathing apparatus in dust-laden atmosphere. Dust mask

Hand protection
Chemical resistant gloves (EN 374)
Appropriate Material neoprene
Appropriate Material butyl
Appropriate Material nitrile

Eye protection
Safety glasses with side protection shield (EN 166)

Body protection
Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Form solid
Colour white
Odour characteristic
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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
</tr>
<tr>
<td>pH value</td>
<td>Value: appr. 14; Concentration/H2O: 10%</td>
</tr>
<tr>
<td>Melting point</td>
<td>not determined</td>
</tr>
<tr>
<td>Freezing point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate (ether = 1)</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas) evaluation</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour density</td>
<td>not determined</td>
</tr>
<tr>
<td>Density</td>
<td>not determined</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>not determined</td>
</tr>
<tr>
<td>Solubility(ies)</td>
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</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>not determined</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>not determined</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>not determined</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>not determined</td>
</tr>
</tbody>
</table>

9.2. Other information

Other information
None known
SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability
No hazardous reactions known.

10.3. Possibility of hazardous reactions
No hazardous reactions known.

10.4. Conditions to avoid
No hazardous reactions known.

Decomposition temperature
Remarks not determined

10.5. Incompatible materials
Strong exothermic reaction with acids.

10.6. Hazardous decomposition products
Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity
Species rat
LD50 > 2000 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)
 disodium metasilicate
Species rat
LD50 1150 mg/kg

Acute dermal toxicity
Remarks not determined

Acute inhalational toxicity
Remarks not determined

Skin corrosion/irritation
evaluation corrosive

Serious eye damage/irritation
evaluation corrosive

Sensitization
Remarks not determined

Subacute, subchronic, chronic toxicity
Remarks not determined

Mutagenicity
Remarks not determined

Reproductive toxicity
Remarks not determined

Carcinogenicity
Remarks not determined

Specific Target Organ Toxicity (STOT)
Remarks Inhalation may lead to irritation of the respiratory tract.

Aspiration hazard
No special hazards have to be mentioned.

Experience in practice
Inhalation of dusts may irritate the respiratory tract.

Other information
There is no data available on the product apart from the information given in this subsection.

SECTION 12: Ecological information

12.1. Toxicity

General information
not determined

Fish toxicity (Components)
disodium metasilicate
Species mosquito fish
LC50 2320 mg/l
Duration of exposure 96 h

disodium metasilicate
Species zebra fish (Brachydanio rerio)
LC50 210 mg/l
Duration of exposure 96 h

Bacteria toxicity (Components)
disodium metasilicate
Species activated sludge
EC50 > 100 mg/l
Duration of exposure 3 h

12.2. Persistence and degradability

General information
not determined

12.3. Bioaccumulative potential

General information
not determined

Partition coefficient: n-octanol/water
Remarks not determined

12.4. Mobility in soil

General information
not determined

12.5. Results of PBT and vPvB assessment

General information
not determined

12.6. Other adverse effects

General information
not determined
General information / ecology
Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product
Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging
Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

Land transport ADR/RID
14.1. UN number
UN 1759
14.2. UN proper shipping name
CORROSIVE SOLID, N.O.S. (sodium hydroxide, disodium metasilicate)
14.3. Transport hazard class(es)
Class 8
Label 8
14.4. Packing group
Packing group II
Limited Quantity 1 kg
Transport category 2
Tunnel restriction code E

Marine transport IMDG/GGVSee
14.1. UN number
UN 1759
14.2. UN proper shipping name
CORROSIVE SOLID, N.O.S. (sodium hydroxide, disodium metasilicate)
14.3. Transport hazard class(es)
Class 8
14.4. Packing group
Packing group II
14.5. Environmental hazards
no
IMDG-Code segregation 18 Alkalis

Air transport ICAO/IATA
14.1. UN number
UN 1759
14.2. UN proper shipping name
CORROSIVE SOLID, N.O.S. (sodium hydroxide, disodium metasilicate)
14.3. Transport hazard class(es)
Class 8
14.4. Packing group
Packing group II

Information for all modes of transport
14.6. Special precautions for user
See Sections 6 to 8
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Other information
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

Ingredients (Regulation (EC) No 648/2004)
5 % or over but less than 15 %:
polycarboxylates

Water Hazard Class (Germany)
Water Hazard Class  WGK 1
(Germany)
Remarks  Classification according to Annex 4 VwVwS

VOC
VOC (EU)  0  %

Other information
The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment
For this mixture a chemical safety assessment has not been carried out.

SECTION 16: Other information

R-phrases listed in Chapter 3
35  Causes severe burns.
36  Irritating to eyes.

Hazard statements listed in Chapter 3
H290  May be corrosive to metals.
H314  Causes severe skin burns and eye damage.
H318  Causes serious eye damage.
H319  Causes serious eye irritation.
H335  May cause respiratory irritation.

CLP categories listed in Chapter 3
Eye Dam. 1  Serious eye damage, Category 1
Eye Irrit. 2  Eye irritation, Category 2
Met. Corr. 1  Substance or mixture corrosive to metals, Category 1
Skin Corr. 1A  Skin corrosion, Category 1A
Skin Corr. 1B  Skin corrosion, Category 1B
STOT SE 3  Specific target organ toxicity - single exposure, Category 3

Supplemental information
Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.