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

1.1. Product identifier
neodisher FA

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)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H314</td>
<td>H318</td>
<td>H290</td>
</tr>
</tbody>
</table>

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.

Precautionary statements

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.
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SECTION 3: Composition/information on ingredients

Hazardous ingredients

disodium metasilicate
- CAS No. 6834-92-0
- EINECS no. 229-912-9
- Registration no. 01-2119449811-37-0004
- Concentration $>= 10 < 25\%$
- Classification Xi, R37
  - C, R34

Classification (Regulation (EC) No. 1272/2008)
  - Skin Corr. 1B H314
  - STOT SE 3 H335

dipotassium metasilicate
- CAS No. 10006-28-7
- EINECS no. 233-001-1
- Concentration $>= 10 < 25\%$
- Classification Xi, R37
  - C, R34

Classification (Regulation (EC) No. 1272/2008)
  - Skin Corr. 1B H314
  - STOT SE 3 H335

potassium hydroxide
- CAS No. 1310-58-3
- EINECS no. 215-181-3
- Registration no. 01-2119487136-33
- Concentration $< 1\%$
- Classification Xn, R22
  - C, R35

Classification (Regulation (EC) No. 1272/2008)
  - Acute Tox. 4 H302
  - Skin Corr. 1A H314

Concentration limits (Regulation (EC) No. 1272/2008)
  - Skin Corr. 1A H314 $>= 5$
  - Skin Irrit. 2 H315 $<= 0.5 < 2$
  - Skin Corr. 1B H314 $<= 2 < 5$
  - Eye Irrit. 2 H319 $<= 0.5 < 2$

SECTION 4: First aid measures

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 disodium metasilicate; dipotassium metasilicate

2.3. Other hazards
  - No special hazards have to be mentioned.
4.1. Description of first aid measures

General information
Remove contaminated, soaked clothing immediately and dispose of safely. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation
Ensure supply of fresh air. When spray fog inhaled, seek medical aid.

After skin contact
After contact with skin, wash immediately with plenty of water. Take medical treatment.

After eye contact
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. 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. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions
Do not discharge into the drains/surface waters/groundwater.
6.3. Methods and material for containment and cleaning up
Pick up with absorbent material. 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 formation of aerosols. Observe the usual precautions for handling chemicals. Keep container tightly closed.

Advice on protection against fire and explosion
The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class according to TRGS 510
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
There are not known any further control parameters.

8.2. Exposure controls
General protective and hygiene measures
Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/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
If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

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

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

Body protection
Clothing as usual in the chemical industry. Protective shoes

SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>colourless</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>characteristic</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>not determined</td>
</tr>
<tr>
<td><strong>pH value</strong></td>
<td>Value</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Evaporation rate (ether = 1)</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>Value</td>
</tr>
<tr>
<td><strong>Solubility in water</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Remarks</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Remarks</td>
</tr>
</tbody>
</table>

#### 9.2. Other information
SECTON 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. Corrodes aluminium.

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 dermal toxicity (Components)
disodium metasilicate
Species rat
LD50 > 5000 mg/kg

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 not determined

Aspiration hazard
No special hazards have to be mentioned.

Experience in practice
Inhalation may lead to irritation of 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. Avoid release into the atmosphere.

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 1719

14.2. UN proper shipping name
CAUSTIC ALKALI LIQUID, N.O.S. (disodium metasilicate, dipotassium metasilicate)

14.3. Transport hazard class(es)
Class 8
Label 8

14.4. Packing group
Packing group III
Limited Quantity 5 l
Transport category 3
Tunnel restriction code E

Marine transport IMDG/GGVSee

14.1. UN number
UN 1719

14.2. UN proper shipping name
CAUSTIC ALKALI LIQUID, N.O.S. (disodium metasilicate, dipotassium metasilicate)

14.3. Transport hazard class(es)
Class 8

14.4. Packing group
Packing group III

14.5. Environmental hazards
no
IMDG-Code segregation group 18 Alkalis

Air transport ICAO/IATA

14.1. UN number
UN 1719

14.2. UN proper shipping name
CAUSTIC ALKALI LIQUID, N.O.S. (disodium metasilicate, dipotassium metasilicate)

14.3. Transport hazard class(es)
neodisher FA

Class 8

14.4. Packing group
Packing group III

Information for all modes of transport
14.6. Special precautions for user
See Sections 6 to 8

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)
15 % or over but less than 30 %:
phosphates

Water Hazard Class (Germany)
Water Hazard Class (Germany) WGK 1
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
22 Harmful if swallowed.
34 Causes burns.
35 Causes severe burns.
37 Irritating to respiratory system.

Hazard statements listed in Chapter 3
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

CLP categories listed in Chapter 3
Acute Tox. 4 Acute toxicity, Category 4
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.