SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

Waschmittel nach ISO 15797 A1/A2
Article number 88060-A1/A2

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

1.2.1 Relevant uses

Detergent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company: wfk Testgewebe GmbH
Christenfeld 10
41379 Brüggen-Bracht / GERMANY
Phone +49-2157-871977
Fax +49-2157-90657
Homepage www.testgewebe.de
E-mail info@testgewebe.de

Address enquiries to
Technical information: info@testgewebe.de
Safety Data Sheet: sdb@chemiebuero.de

1.4 Emergency phone

Company: +49-2157-871977 Mo-Fr 8:00-17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1B: H314 Causes severe skin burns and eye damage.
Eye Dam. 1: H318 Causes serious eye damage.
STOT SE 3: H335 May cause respiratory irritation.

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

C, Corrosive - R 35: Causes severe burns.
Xi, Irritant - R 37: Irritating to respiratory system.
2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms

Signal word DANGER

Contains: Disodium metasilicate

Alkohole C13-C15 verzweigt und linear, ethoxyliert

Hazard statements

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statements

P260 Do not breathe dust.
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.
P310 Immediately call a POISON CENTER/doctor.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Cleaner, 648/2004/CE, contains:

5 - <15% non-ionic surfactants
< 5% polycarboxylates
< 5% phosphonates
< 5% anionic surfactant
< 0,5% optical brighteners

2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:
The product is a mixture.

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 - &lt; 50</td>
<td>Disodium metasilicate</td>
</tr>
<tr>
<td>CAS: 6834-92-0, EINECS/ELINCS: 229-912-9, EU-INDEXX: 014-010-00-8, ECB-Nr.: 01-2119449811-37-XXXX</td>
<td></td>
</tr>
<tr>
<td>EEC: C, R 34-37</td>
<td></td>
</tr>
<tr>
<td>30 - &lt;40</td>
<td>Sodium carbonate</td>
</tr>
<tr>
<td>GHS/CLP: Eye Irrit. 2: H319</td>
<td></td>
</tr>
<tr>
<td>EEC: Xi, R 36</td>
<td></td>
</tr>
<tr>
<td>5 - &lt;10</td>
<td>Alkohole C13-C15 verzweigt und linear, ethoxyliert</td>
</tr>
<tr>
<td>CAS: 157627-86-6</td>
<td></td>
</tr>
<tr>
<td>GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412</td>
<td></td>
</tr>
<tr>
<td>EEC: Xn-N, R 22-41</td>
<td></td>
</tr>
</tbody>
</table>

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.
SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation
Seek medical advice immediately.
Ensure supply of fresh air.

Skin contact
Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.
In case of contact with skin wash off immediately with soap and water.

Eye contact
In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Shield unaffected eye.

Ingestion
Consult a doctor immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used
Full water jet.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.
Use personal protective clothing.
Use breathing apparatus if exposed to dust.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Avoid raising dust.
Take up mechanically.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13
SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Avoid the formation and deposition of dust.
- Use only in well-ventilated areas.
- Provide vacuuming if dust raised.
- The product is not combustible.
- After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
- Do not eat, drink, smoke or take drugs at work.
- Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

- Keep only in original container.
- Provide alkali-resistant floor.
- Do not store together with acids.
- Keep container tightly closed.
- Keep in a cool place. Store in a dry place.
- The product is hygroscopic.
- Storage class 8B (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

- not applicable

<table>
<thead>
<tr>
<th>Substance</th>
<th>DNEL (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium metasilicate, CAS: 6834-92-0</td>
<td>40 - &lt; 50</td>
</tr>
<tr>
<td>Industrial, inhalative, Long-term - systemic effects: 6,22 mg/m³.</td>
<td></td>
</tr>
<tr>
<td>Industrial, dermal, Long-term - systemic effects: 1,49 mg/kg.</td>
<td></td>
</tr>
<tr>
<td>general population, dermal, Long-term - systemic effects: 0,74 mg/kg.</td>
<td></td>
</tr>
<tr>
<td>general population, inhalative, Long-term - systemic effects: 1,55 mg/m³.</td>
<td></td>
</tr>
<tr>
<td>general population, oral, Long-term - systemic effects: 0,74 mg/kg.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>PNEC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium metasilicate, CAS: 6834-92-0</td>
<td>40 - &lt; 50</td>
</tr>
<tr>
<td>sewage treatment plants (STP), 1000 mg/l.</td>
<td></td>
</tr>
<tr>
<td>seawater, 1 mg/l.</td>
<td></td>
</tr>
<tr>
<td>freshwater, 7,5 mg/l.</td>
<td></td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Additional advice on system design

Ensure adequate ventilation on workstation.
To pay attention to dust limit value (ACGHI-2011: 10 mg/m³ particle inhalable; 3 mg/m³ particle respirable).

Eye protection

Tightly fitting goggles.

Hand protection

The details concerned are recommendations. Please contact the glove supplier for further information.
In full contact: Butyl rubber, >480 min (EN 374).
In splash contact: Butyl rubber, >480 min (EN 374).

Skin protection

Alkali-resistant protective clothing.

Other

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Avoid contact with eyes and skin.
Do not inhale dust.

Respiratory protection

Respiratory protection in the case of dust formation.
Short term: filter apparatus, filter P2.

Thermal hazards

none

Delimitation and monitoring of the environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form

Powder

Color

white

Odor

mild

Odour threshold

not applicable

pH-value

strongly alkaline

pH-value [1%]

12.7

Boiling point [°C]

not determined

Flash point [°C]

not applicable

Flammability [°C]

not applicable

Lower explosion limit

not applicable

Upper explosion limit

not applicable

Oxidizing properties

no

Vapour pressure/gas pressure [kPa]

not applicable

Density [g/ml]

1.15

Bulk density [kg/m³]

not determined

Solubility in water

soluble

Partition coefficient [n-octanol/water]

not determined

Viscosity

not applicable

Relative vapour density determined in air

not applicable

Evaporation speed

not applicable

Melting point [°C]

not determined

Autoignition temperature [°C]

not determined

Decomposition temperature [°C]

not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.
10.2 Chemical stability
Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions
- Reactions with acids.
- Reactions with light metals, with evolution of hydrogen.
- Reactions with oxidizing agents.

10.4 Conditions to avoid
See SECTION 7

10.5 Incompatible materials
See SECTION 10.3.

10.6 Hazardous decomposition products
No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
<th>Acute effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - &lt;10</td>
<td>Alkohole C13-C15 verzweigt und linear, ethoxyliert, CAS: 157627-86-6</td>
<td>LD50, oral, Rat: 500 - 2000 mg/kg.</td>
</tr>
<tr>
<td>30 - &lt;40</td>
<td>Sodium carbonate, CAS: 497-19-8</td>
<td>LD50, oral, Rat: 4090 mg/kg (IUCLID). LC50, inhalative, Rat: 5750 mg/l 2 h (OECD 403).</td>
</tr>
<tr>
<td>40 - &lt; 50</td>
<td>Disodium metasilicate, CAS: 6834-92-0</td>
<td>LD50, oral, Rat: 1150 mg/kg. NOAEL, oral, Rat: 227 mg/kg/d.</td>
</tr>
</tbody>
</table>

Serious eye damage/irritation: not determined
Skin corrosion/irritation: not determined
Respiratory or skin sensitisation: not determined
Specific target organ toxicity — single exposure: not determined
Specific target organ toxicity — repeated exposure: not determined
Mutagenicity: not determined
Reproduction toxicity: not determined
Carcinogenicity: not determined
General remarks: Danger acute eye damage. Corrosive action on the skin and mucous membrane. Toxicological data of complete product are not available. The classification as corrosive (R 35) is due to the extreme pH. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - &lt;10</td>
<td>Alkohole C13-C15 verzweigt und linear, ethoxyliert, CAS: 157627-86-6</td>
</tr>
<tr>
<td></td>
<td>LC50, (96h), Brachidanio rerio: 1-10 mg/l.</td>
</tr>
<tr>
<td></td>
<td>EC50, (72h), Scenedesmus subspicatus: 1-10 mg/l.</td>
</tr>
<tr>
<td></td>
<td>EC50, (48h), Daphnia magna: 1-10 mg/l.</td>
</tr>
<tr>
<td>30 - &lt;40</td>
<td>Sodium carbonate, CAS: 497-19-8</td>
</tr>
<tr>
<td></td>
<td>LC50, (96h), Lepomis macrochirus: 300 mg/l (IUCLID).</td>
</tr>
<tr>
<td></td>
<td>EC50, (48h), Daphnia magna: 265 mg/l (IUCLID).</td>
</tr>
<tr>
<td>40 - &lt;50</td>
<td>Disodium metasilicate, CAS: 6834-92-0</td>
</tr>
<tr>
<td></td>
<td>LC50, (96h), Danio rerio: 210 mg/l.</td>
</tr>
<tr>
<td></td>
<td>EC50, (48h), Daphnia magna: 1700 mg/l.</td>
</tr>
<tr>
<td></td>
<td>EC50, (3h), Bacteria: &gt; 100 mg/l.</td>
</tr>
<tr>
<td></td>
<td>EC50, (72h), Algae: 204 mg/l.</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

- **Behaviour in environment compartments**: not determined
- **Behaviour in sewage plant**: The product can cause foaming in sewage treatment plants.
- **Biological degradability**: The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product
Dispose of as hazardous waste.
Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 070608*

Contaminated packaging
Packaging that cannot be cleaned should be disposed of as for product.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number
See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID
- Classification Code C6
- Label
- ADR LQ 5 kg
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)
- Classification Code C6
- Label

Marine transport in accordance with IMDG
- EMS F-A, S-B
- Label
- IMDG LQ 5 kg

Air transport in accordance with IATA
- Label

14.3 Transport hazard class(es)
See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group
See SECTION 14.2 in accordance with UN shipping name
14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

SECTION 15: Regulatory information

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


- Observe employment restrictions for people
  Observe employment restrictions for young people.
  Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (1999/13/CE) not applicable

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 36: Irritating to eyes.
R 34: Causes burns.
R 37: Irritating to respiratory system.
R 22: Harmful if swallowed.
R 41: Risk of serious damage to eyes.

16.2 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H290 May be corrosive to metals.
H335 May cause respiratory irritation.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV® STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.4 Other information

Customs Tariff
not determined

Classification procedure
Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)

Modified position
none

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