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

1.1. Product identifier

PRIMA EXTENT

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

Use of the substance/mixture
- Professional use of laundry products
- Industrial use of laundry products

Uses advised against
- No information available.

1.3. Details of the supplier of the safety data sheet

Company name: DR. SCHNELL GmbH & Co. KGaA
Street: Taunusstraße 19
Place: D-80807 München
Telephone: +49/89/350608-0
Fax: +49/89/350608-47
E-mail: info@dr-schnell.de
Contact person: Josef Feuerstein
Telephone: +49/89/350608-46
E-mail: sdb@dr-schnell.de
Internet: www.dr-schnell.de

1.4. Emergency telephone number

Emergency CONTACT (24-Hour-Number) international: GBK GmbH +49 (0) 61 32 - 8 44 63

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
- Substance or mixture corrosive to metals: Met. Corr. 1
- Skin corrosion/irritation: Skin Corr. 1A
- Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:
- May be corrosive to metals.
- Causes severe skin burns and eye damage.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling
- caustic potash, potassium hydroxide
- sodium hydroxide
- 1-hydroxyethane-1,1-diphosphonic acid
- Silicic acid, sodium salt

Signal word: Danger

Pictograms:

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.
P301+P330+P331  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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/doctor.

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

High pH value can damage water.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1310-58-3</td>
<td>caustic potash, potassium hydroxide</td>
<td>5 - &lt; 10 %</td>
<td></td>
<td>019-002-00-8</td>
<td>01-2119487136-33</td>
<td>Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314</td>
</tr>
<tr>
<td>1310-73-2</td>
<td>sodium hydroxide</td>
<td>5 - &lt; 10 %</td>
<td></td>
<td>011-002-00-6</td>
<td>01-2119457892-27</td>
<td>Skin Corr. 1A; H314</td>
</tr>
<tr>
<td>2809-21-4</td>
<td>1-hydroxyethane-1,1-diphosphonic acid</td>
<td>5 - &lt; 10 %</td>
<td></td>
<td></td>
<td></td>
<td>Met. Corr. 1, Acute Tox. 4, Eye Dam. 1; H290 H302 H318</td>
</tr>
<tr>
<td>1344-09-8</td>
<td>silicic acid, sodium salt</td>
<td>1 - &lt; 5 %</td>
<td></td>
<td></td>
<td>01-2119448725-31</td>
<td>Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335</td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

Further Information

Regulation (EC) No. 648/2004 (Detergents regulation)
5 % - < 15 % polycarboxylates, phosphonates

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation
Provide fresh air.
In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Immediate medical treatment required because injuries that are not treated are hard to cure. To be accompanied by MSDS.

After contact with eyes
Rinse immediately carefully and thoroughly with eye-bath or water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Call a physician immediately. To be accompanied by MSDS.
Consult an ophthalmologist.

**After ingestion**
Do NOT induce vomiting.
Rinse mouth immediately and drink plenty of water.
Call a physician immediately. To be accompanied by MSDS.
The following symptoms may occur:
Perforation of the esophagus
Irritant to skin and mucous membranes.

**4.2. Most important symptoms and effects, both acute and delayed**
If applicable, delayed symptoms and effects can be found in section 11., i.e. under section 4.1 for absorption methods.
The following symptoms may occur:
Irritant to skin and mucous membranes.
Necrosis
Risk of serious damage to eyes.
Risk of blindness after ingestion:
Danger of severe chemical burns that lead to perforation of oesophagus and stomach.

**4.3. Indication of any immediate medical attention and special treatment needed**
No special measures are necessary.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

*Suitable extinguishing media*
Product is not flammable.
Co-ordinate fire-fighting measures to the fire surroundings.
Water spray. / Foam. / Carbon dioxide (CO2). / Dry extinguishing powder.

*Unsuitable extinguishing media*
High power water jet.

**5.2. Special hazards arising from the substance or mixture**
Hazardous combustion products
Gas/vapours, corrosive.
Oxides of carbon
Phosphorus oxides.
Nitrogen oxides (NOx).
Pyrolysis products, toxic.

**5.3. Advice for firefighters**
In case of fire: Wear self-contained breathing apparatus.
Alkali-resistant protective clothing (EN 13034)

**Additional information**
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Dispose of waste according to applicable legislation.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**
Avoid contact with eyes and skin.
Avoid breathing dust/fume/gas/mist/vapours/spray.
If necessary Caution, slippery
6.2. Environmental precautions
Prevent spread over a wide area (e.g. by containment or oil barriers).
Prevent surface and ground-water infiltration, as well as ground penetration.
Do not pour down the drain undiluted.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.
Neutralisation possible by an expert.
Flush residue with plenty of water.

6.4. Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
In addition to the information contained in this section, relevant information can also be found in sections 8 and 6.1.

Further information on handling
Observe instructions for use.
Notice the directions for use on the label.
Working methods should be applied according to operating instructions.
Eyewash station and safety shower must be located near the processing area.
General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and after work.
Keep away from food, drink and animal feedingstuffs.
Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Store product closed and only in original packing.
Not to be stored in gangways or stair wells.
Do not use materials not resistant to alkali.
Suitable floor material: Alkali resistant
storage temperature: at room temperature
Store in a place accessible by authorized persons only.

Advice on storage compatibility
Do not store together with: acid.

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
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</thead>
<tbody>
<tr>
<td>1310-58-3</td>
<td>Potassium hydroxide</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td></td>
</tr>
<tr>
<td>1310-73-2</td>
<td>Sodium hydroxide</td>
<td>-</td>
<td>2</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Appropriate engineering controls
- Provide adequate ventilation.
  - This can be achieved by local exhaust ventilation or general ventilation.
  - When exceeding the occupational exposure limit (OEL):
  - Use appropriate respiratory protection.
  - Applies only if maximum permissible exposure values are listed here.

Protective and hygiene measures
- General hygiene measures for the handling of chemicals are applicable.
- Wash hands before breaks and after work.
- Keep away from food, drink and animal feedingstuffs.
- Contaminated work clothing should not be allowed out of the workplace.

Eye/face protection
- Tightly sealed safety glasses. (EN 166)
- If necessary Wear face protection. (EN 166)

Hand protection
- Protective gloves of neoprene (EN 374)
- Protective gloves made of butyl rubber (EN 374), Minimum coating thickness in mm: 0,5
- Hand lotion are recommended.
  - No tests have been carried out.
  - For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection
- Alkali-resistant protective clothing (EN 13034)
- If necessary: Apron., Boots. (EN ISO 20347)

Respiratory protection
- With correct and proper use, and under normal conditions, breathing protection is not required.

Environmental exposure controls
- No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour:</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH-Value:</td>
<td>~14</td>
</tr>
</tbody>
</table>

Changes in the physical state

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point:</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>~100 °C</td>
</tr>
<tr>
<td>Flash point:</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>State</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not determined</td>
</tr>
</tbody>
</table>

Explosive properties

- The product is not: Explosive.
- Lower explosion limits: not determined
- Upper explosion limits: not determined
Ignition temperature: not determined

Auto-ignition temperature
Solid: not determined
Gas: not determined

Oxidizing properties
not determined

Vapour pressure: not determined
Vapour pressure: not determined
Density: ~1,34 g/cm³
Bulk density: not determined
Water solubility: easily soluble.

Solubility in other solvents
not determined
Partition coefficient: not determined
Viscosity / dynamic: not determined
Viscosity / kinematic: not determined
Vapour density: not determined
Solvent content: not determined

9.2. Other information
Mixability: not determined
Fat solubility (g/l): not determined
Conductivity: not determined
Surface tension: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity
See also Subsection 10.4 to 10.6.
The product has not been tested.

10.2. Chemical stability
See also Subsection 10.4 to 10.6.
Stable with proper storage and handling.

10.3. Possibility of hazardous reactions
See also Subsection 10.4 to 10.6.

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
See also section 7.
Contact with strong acids leads to strong reaction and heat production
Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc) (explosive hazard!).
Avoid contact with materials that are not alkali resistant.

10.6. Hazardous decomposition products
See also Subsection 10.4 to 10.6.
Also refer to section 5.3.
No information available.

SECTION 11: Toxicological information
11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution
Possibly more information on health effects, see Section 2.1 (classification).

Acute toxicity
Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
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</thead>
<tbody>
<tr>
<td>1310-58-3</td>
<td>caustic potash, potassium hydroxide</td>
<td>oral</td>
<td>LD50</td>
<td>273</td>
<td>Ratte</td>
<td>RTECS</td>
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<tr>
<td>1310-73-2</td>
<td>sodium hydroxide</td>
<td>oral</td>
<td>LD50</td>
<td>2000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>2809-21-4</td>
<td>1-hydroxyethane-1,1-diphosphonic acid</td>
<td>oral</td>
<td>ATE</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1344-09-8</td>
<td>silicic acid, sodium salt</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>- mg/kg</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
<td>LC50</td>
<td>- mg/l</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes severe skin burns and eye damage.

Sensitising effects
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity
See section 2.1 (rating) for potentially additional information concerning environmental effects.
### 12.2. Persistence and degradability

The surfactant contained in this mixture complies 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 data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Advice on disposal**
- Dispose of waste according to applicable legislation.
- E.g. dispose at suitable refuse site.
- Neutralisation possible by an expert.

**Waste disposal number of waste from residues/unused products**

060204 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; sodium and potassium hydroxide; hazardous waste

**Contaminated packaging**
- Dispose of waste according to applicable legislation.
- Recommendation:
  - Completely empty containers
  - Dispose using dual system.
  - Recommended cleaning agent: Water.

### SECTION 14: Transport information

#### 14.1. UN number:

UN1719

#### 14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S.

(sodium hydroxide, caustic potash, potassium hydroxide)

#### 14.3. Transport hazard class(es):

8
### PRIMA EXTENT

**Revision date:** 29.06.2018  
**Product code:** 70099_CLP  
**Page:** 9 of 10

<table>
<thead>
<tr>
<th><strong>14.4. Packing group:</strong></th>
<th>II</th>
</tr>
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<tbody>
<tr>
<td><strong>Hazard label:</strong></td>
<td>8</td>
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<tr>
<td><strong>Classification code:</strong></td>
<td>C5</td>
</tr>
<tr>
<td><strong>Special Provisions:</strong></td>
<td>274</td>
</tr>
<tr>
<td><strong>Limited quantity:</strong></td>
<td>1 L</td>
</tr>
<tr>
<td><strong>Transport category:</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Hazard No:</strong></td>
<td>80</td>
</tr>
<tr>
<td><strong>Tunnel restriction code:</strong></td>
<td>E</td>
</tr>
</tbody>
</table>

**Other applicable information (land transport)**

Excepted Quantities: E2

**Inland waterways transport (ADN)**

<table>
<thead>
<tr>
<th><strong>14.1. UN number:</strong></th>
<th>UN1719</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.2. UN proper shipping name:</strong></td>
<td>CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide, caustic potash, potassium hydroxide)</td>
</tr>
<tr>
<td><strong>14.3. Transport hazard class(es):</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>14.4. Packing group:</strong></td>
<td>II</td>
</tr>
<tr>
<td><strong>Hazard label:</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>Classification code:</strong></td>
<td>C5</td>
</tr>
<tr>
<td><strong>Special Provisions:</strong></td>
<td>274</td>
</tr>
<tr>
<td><strong>Limited quantity:</strong></td>
<td>1 L</td>
</tr>
</tbody>
</table>

**Other applicable information (inland waterways transport)**

Excepted Quantities: E2

**Marine transport (IMDG)**

<table>
<thead>
<tr>
<th><strong>14.1. UN number:</strong></th>
<th>UN1719</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.2. UN proper shipping name:</strong></td>
<td>CAUSTIC ALKALI LIQUID, N.O.S. (caustic soda, sodium hydroxide; caustic potash, potassium hydroxide)</td>
</tr>
<tr>
<td><strong>14.3. Transport hazard class(es):</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>14.4. Packing group:</strong></td>
<td>II</td>
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<tr>
<td><strong>Hazard label:</strong></td>
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<tr>
<td><strong>Special Provisions:</strong></td>
<td>274</td>
</tr>
<tr>
<td><strong>Limited quantity:</strong></td>
<td>1 L</td>
</tr>
<tr>
<td><strong>EmS:</strong></td>
<td>F-A, S-B</td>
</tr>
</tbody>
</table>

**Other applicable information (marine transport)**

Excepted Quantities: E2

**Air transport (ICAO-TI/IATA-DGR)**

<table>
<thead>
<tr>
<th><strong>14.1. UN number:</strong></th>
<th>UN1719</th>
</tr>
</thead>
<tbody>
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<td>CAUSTIC ALKALI LIQUID, N.O.S. (caustic soda, sodium hydroxide; caustic potash, potassium hydroxide)</td>
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<tr>
<td><strong>14.3. Transport hazard class(es):</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>14.4. Packing group:</strong></td>
<td>II</td>
</tr>
<tr>
<td><strong>Hazard label:</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>Special Provisions:</strong></td>
<td>A3 A803</td>
</tr>
<tr>
<td><strong>Limited quantity Passenger:</strong></td>
<td>0.5 L</td>
</tr>
<tr>
<td><strong>IATA-packing instructions - Passenger:</strong></td>
<td>851</td>
</tr>
<tr>
<td><strong>IATA-max. quantity - Passenger:</strong></td>
<td>1 L</td>
</tr>
<tr>
<td><strong>IATA-packing instructions - Cargo:</strong></td>
<td>855</td>
</tr>
<tr>
<td><strong>IATA-max. quantity - Cargo:</strong></td>
<td>30 L</td>
</tr>
</tbody>
</table>

**Other applicable information (air transport)**

Excepted Quantities: E2
### 14.5. Environmental hazards

**ENVIRONMENTALLY HAZARDOUS:** no

### 14.6. Special precautions for user

Persons responsible for the transport of dangerous goods must be trained. Security provisions must be observed by all persons involved. Precautions must be taken to avoid injury.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable, as freight is carried as general cargo, not in bulk.

### Other applicable information

Hazard number and packing code are available on request.

### SECTION 15: Regulatory information

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

**EU regulatory information**

- 2010/75/EU (VOC): 0%
- 2004/42/EC (VOC): 0%

**Additional information**

For classification and labelling, see section 2.

**National regulatory information**

- Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Water contaminating class (D): 2 - clearly water contaminating

### SECTION 16: Other information

#### Changes

Revised sections: 1, 2, 3, 4, 7, 9, 11, 12, 16

#### Abbreviations and acronyms

- vPvB = very persistent very bioaccumulative
- PBT = persistent bioaccumulative toxic

**Relevant H and EUH statements (number and full text)**

- H290: May be corrosive to metals.
- H302: Harmful if swallowed.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*