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

1.1. Product identifier
PRIMA FORTE

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

Use of the substance/mixture
Professional 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
Contact person: Josef Feuerstein
E-mail: info@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:
Acute toxicity: Acute Tox. 4
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

Signal word: Danger

Pictograms:

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

Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
PRIMA FORTE
Revision date: 22.05.2018 Product code: 60050_CLP

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

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>
</tr>
</thead>
<tbody>
<tr>
<td>1310-58-3</td>
<td>caustic potash, potassium hydroxide</td>
<td>5-15%</td>
</tr>
<tr>
<td>215-181-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

Further Information

Regulation (EC) No. 648/2004 (Detergents regulation)
15-30 % phosphates
< 5 % phosphonates

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Take off immediately all contaminated clothing.

After inhalation
Provide fresh air.
In case of irregular breathing or respiratory arrest provide artificial respiration.
In all cases of doubt, or when symptoms persist, seek medical advice.
If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, seek medical treatment.

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.

After ingestion
Rinse mouth immediately and drink plenty of water.
Do NOT induce vomiting.
If swallowed, seek medical advice immediately and show this container or label.

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
No special measures are necessary.
SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Gas/vapours, toxic.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
In case of fire and/or explosion do not breathe fumes.

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

Wear personal protection equipment. Keep unprotected persons away.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Leakage into waters, ground or the drainage system, the appropriate authorities must be informed.
Dilute with plenty of water.

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.
Use neutralising agent.

6.4. Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.
See also section 7. See section 10.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Further information on handling
Use personal protection equipment.
Working methods should be applied according to operating instructions.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Suitable floor material: Leachate-proof.

Advice on storage compatibility
Store separately from foodstuffs.

Further information on storage conditions
Keep container tightly closed.
Protect against: frost.

7.3. Specific end use(s)

No information available.
**SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### Exposure limits (EH40)

<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>
</tr>
</thead>
<tbody>
<tr>
<td>1310-58-3</td>
<td>Potassium hydroxide</td>
<td>-</td>
<td>-</td>
<td>2</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>WEL</td>
</tr>
</tbody>
</table>

Additional advice on limit values

The product does not contain any relevant quantities of materials with critical values that require monitoring in the workplace.

The valid lists were used in the preparation.

#### 8.2. Exposure controls

**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.
Take off immediately all contaminated clothing.
Avoid contact with eyes and skin.

**Eye/face protection**

Tightly sealed safety glasses. (EN 166)

**Hand protection**

Wear protective gloves. (EN374)
Protective gloves have to be replaced at the first sign of deterioration.

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)

**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

- **Physical state:** liquid
- **Colour:** colourless
- **Odour:** odourless
- **pH-Value (at 20 °C):** 14

**Changes in the physical state**

- **Melting point:** -5 °C
- **Initial boiling point and boiling range:** 100 °C
- **Flash point:** not applicable

**Flammability**
PRIMA FORTE

EXPLOSIVE PROPERTIES

The product is: not explosive according to EU A.14

Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined

AUTO-IGNITION TEMPERATURE

Solid: not determined
Gas: not determined

Vapour pressure: not determined

Density (at 20 °C): 1.5 g/cm³

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
See also Subsection 10.2 to 10.6.
The product has not been tested.

10.2. Chemical stability
See also Subsection 10.1 to 10.6.
Stable with proper storage and handling.

10.3. Possibility of hazardous reactions
Exothermic reactions with: Acid.
Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc) (explosive hazard!).

10.4. Conditions to avoid
No decomposition when used as directed.

10.5. Incompatible materials
Acid.

10.6. Hazardous decomposition products
No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, 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.
The product is a preparation for which no experimental toxicity data is available.

ATEmix calculated
ATE (oral) 1820,0 mg/kg

<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>
</tr>
</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>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes severe skin burns and eye damage.
Irritant to skin and mucous membranes.
Strong caustic effect on the eyes.

Sensitising effects
Based on available data, the classification criteria are not met.
Specific effects: no danger of sensitization.

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.

Additional information on tests
The product shows the following hazards based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: corrosive.
Danger of severe chemical burns that lead to perforation of oesophagus and stomach.

SECTION 12: Ecological information

12.1. Toxicity
No information available.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1310-58-3</td>
<td>caustic potash, potassium hydroxide</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>80 mg/l</td>
<td>96 h</td>
<td>Gambusia affinis</td>
<td>IUCLID</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
No data available

12.6. Other adverse effects
No data available
Further information

Do not allow to enter into surface water or drains.
Product changes pH-value in the test system. The result refers to the non-neutralized sample.
The pH value is considerably reduced in the dilution of the application concentration, so that the wastewater reaching the sewers is only slightly hazardous for water after using the product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

<table>
<thead>
<tr>
<th>Waste disposal number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200129</td>
<td>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste</td>
</tr>
</tbody>
</table>

Waste disposal number of contaminated packaging

<table>
<thead>
<tr>
<th>Waste disposal number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>150102</td>
<td>WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging</td>
</tr>
</tbody>
</table>

Contaminated packaging
Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

| 14.1. UN number: | UN1814 |
| 14.2. UN proper shipping name: | POTASSIUM HYDROXIDE SOLUTION |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | II |
| Hazard label: | 8 |
| Classification code: | C5 |
| Limited quantity: | 1 L |
| Transport category: | 2 |
| Hazard No: | 80 |
| Tunnel restriction code: | E |

Other applicable information (land transport)
Excepted Quantities: E2

Inland waterways transport (ADN)

| 14.1. UN number: | UN1814 |
| 14.2. UN proper shipping name: | POTASSIUM HYDROXIDE SOLUTION |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | II |
| Hazard label: | 8 |
| Classification code: | C5 |
| Limited quantity: | 1 L |

Other applicable information (inland waterways transport)
Excepted Quantities: E2

Marine transport (IMDG)

| 14.1. UN number: | UN1814 |
| 14.2. UN proper shipping name: | POTASSIUM HYDROXIDE SOLUTION |
Safety Data Sheet

according to Regulation (EC) No 1907/2006

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14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8

Special Provisions: -

Limited quantity: 1 L

EmS: F-A, S-B

Other applicable information (marine transport)

Excepted Quantities: E2

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN1814

14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8

Special Provisions: A3 A803

Limited quantity Passenger: 0.5 L

IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

Other applicable information (air transport)

Excepted Quantities: E2

Passenger-LQ: Y840

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

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

not applicable

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

Leaflets by BG-Chemie: M 004 / BGI 595 "Irritating substances / corrosive substances"

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

SECTION 16: Other information

Changes

Revised sections: 1, 2, 7, 11, 16

Abbreviations and acronyms

vPvB = very persistent very bioaccumulative
PBT = persistent bioaccumulative toxic
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

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.)