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

1.1. Product identifier
PRIMA FLÜSSIG

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

<table>
<thead>
<tr>
<th>Company name:</th>
<th>DR.SCHNELL GmbH &amp; Co. KGaA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street:</td>
<td>Taunusstraße 19</td>
</tr>
<tr>
<td>Place:</td>
<td>D-80807 München</td>
</tr>
<tr>
<td>Telephone:</td>
<td>+49/89/350608-0</td>
</tr>
<tr>
<td>e-mail:</td>
<td><a href="mailto:info@dr-schnell.de">info@dr-schnell.de</a></td>
</tr>
<tr>
<td>Contact person:</td>
<td>Josef Feuerstein</td>
</tr>
<tr>
<td>e-mail:</td>
<td><a href="mailto:sdb@dr-schnell.de">sdb@dr-schnell.de</a></td>
</tr>
<tr>
<td>Internet:</td>
<td><a href="http://www.dr-schnell.de">www.dr-schnell.de</a></td>
</tr>
<tr>
<td>Responsible Department:</td>
<td>Labor</td>
</tr>
</tbody>
</table>

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:
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:
Causes skin irritation.
Causes serious eye irritation.

2.2. Label elements

Regulation (EC) No. 1272/2008
Signal word: Warning

Pictograms:

Hazard statements
H319 Causes serious eye irritation.
H315 Causes skin irritation.

Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
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.
Additional advice on labelling
Classification of the substance or mixture: On basis of test data.

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

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1-hydroxy ethylidene) biphosphonic, compound with 2-aminoethanol</td>
<td>20 - &lt; 25 %</td>
</tr>
<tr>
<td>Skin Irrit. 2, Eye Irrit. 2; H315 H319</td>
<td></td>
</tr>
<tr>
<td>Sulfonic acids, C14-17-sec-alkane, sodium salts</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td>307-055-2 01-2119489924-20</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412</td>
<td></td>
</tr>
<tr>
<td>Fatty alcohol polyglycol ethers</td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>Eye Dam. 1; H318</td>
<td></td>
</tr>
<tr>
<td>Quaternäre Ammoniumverbindungen, C12-14-Alkyl(hydroxyethyl)dimethyl-Chloride</td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>01-2119484688-17</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4, Skin Corr. 1B, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 2; H302 H314 H373 H400 H411</td>
<td></td>
</tr>
</tbody>
</table>

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

Further Information
Regulation (EC) No. 648/2004 (Detergents regulation)
15 % - < 30 % phosphonates
5 % - < 15 % anionic surfactants
< 5 % cationic surfactants, nonionic surfactants
optical brighteners

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation
Move victim out of danger zone. 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. 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.
In all cases of doubt, or when symptoms persist, seek medical advice.

After ingestion
Rinse mouth thoroughly with water.
Call a physician immediately.
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.

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.
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
Oxides of carbon
Sulfur oxides.
Phosphorus oxides.
Nitrogen oxides (NOx).
Hydrogen chloride (HCl).
Gas/vapours, toxic.

5.3. Advice for firefighters
In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.
If necessary Full protective suit.

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
Provide adequate ventilation.
Avoid contact with eyes and skin.
If necessary Caution, slippery

6.2. Environmental precautions
Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not allow to enter into surface water or drains.
Leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

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.
Can be diluted with water
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
Provide adequate ventilation.
Avoid contact with eyes and skin.
When using do not eat, drink or smoke.
Observe instructions for use.
Notice the directions for use on the label.
Working methods should be applied according to operating instructions.
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 in a place accessible by authorized persons only.
Store product closed and only in original packing.
Not to be stored in gangways or stair wells.
storage temperature: at room temperature

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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)

Hand protection
Chemical-resistant protective gloves (EN 374)
If necessary
Protective gloves made of butyl (EN 374)
Protective gloves of nitrile (EN 374)
Protective gloves of PVC (EN 374)
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
    Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

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:** light yellow
- **Odour:** characteristic
- **pH-Value:** ~8

**Changes in the physical state**

- **Melting point:** not determined
- **Initial boiling point and boiling range:** not determined
- **Flash point:** not determined

**Flammability**

- **Solid:** not determined
- **Gas:** not determined

**Explosive properties**

- **Solid:** not determined
- **Gas:** not determined

**Oxidizing properties**

- **Vapour pressure:** not determined
- **Vapour pressure:** not determined
- **Density:** ~1.11 g/cm³
- **Bulk density:** not determined
- **Water solubility:** miscible.

**Solubility in other solvents**

- **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
The product has not been tested.

10.2. Chemical stability
Stable with proper storage and handling.

10.3. Possibility of hazardous reactions
No decomposition when used as directed.

10.4. Conditions to avoid
See also section 7.

10.5. Incompatible materials
See also section 7.
Avoid contact with strong acids.
Contact with strong acids leads to strong reaction and heat production

10.6. Hazardous decomposition products
See also section 5.2.
No decomposition when used as directed.

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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sulfonic acids, C14-17-sec-alkane, sodium salts</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>&gt;2000</td>
<td>Mouse.</td>
<td></td>
</tr>
<tr>
<td>26183-52-8</td>
<td>Fatty alcohol polyglycol ethers</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>
<tr>
<td>85736-63-6</td>
<td>Quaternäre Ammoniumverbindungen, C12-14-Alkyl(hydroxyethyl)dimethyl-Chloride</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;2000- 2000 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes serious eye irritation.
Causes skin irritation.

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.

<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>97489-15-1</td>
<td>Sulfonic acids, C14-17-sec-alkane, sodium salts</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>1-10</td>
<td></td>
<td>Brachydano rerio (zebra-fish)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>&gt;61 mg/l</td>
<td>72 h</td>
<td>Scenedesmus subspicatus</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>9.81 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26183-52-8</td>
<td>Fatty alcohol polyglycol ethers</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td></td>
<td>96 h</td>
<td>Brachydano rerio (zebra-fish)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>- mg/l</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>- mg/l</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>85736-63-6</td>
<td>Quaternäre Ammoniumverbindungen, C12-14-Alkyl(hydroxyethyl)dimethyl-Chloride</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>4.2 mg/l</td>
<td>96 h</td>
<td>Brachydano rerio (zebra-fish)</td>
<td>Desmodesmus subspicatus</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>0.35 mg/l</td>
<td>72 h</td>
<td>Desmodesmus subspicatus</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>0.53 mg/l</td>
<td>48 h</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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.
For example: designated incinerator
E.g. dispose at suitable refuse site.

Waste disposal number of waste from residues/unused products
070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors;
hazardous waste

Waste disposal number of used product
200129 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

Contaminated packaging

Dispose of waste according to applicable legislation.
Completely empty containers
Non-contaminated packages must be recycled or disposed of.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: Not a hazardous material with respect to these transportation regulations.
14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es): Not a hazardous material with respect to these transportation regulations.
14.4. Packing group: Not a hazardous material with respect to these transportation regulations.

Inland waterways transport (ADN)

14.1. UN number: Not a hazardous material with respect to these transportation regulations.
14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es): Not a hazardous material with respect to these transportation regulations.
14.4. Packing group: Not a hazardous material with respect to these transportation regulations.

Marine transport (IMDG)

14.1. UN number: Not a hazardous material with respect to these transportation regulations.
14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es): Not a hazardous material with respect to these transportation regulations.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: Not a hazardous material with respect to these transportation regulations.
14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es): Not a hazardous material with respect to these transportation regulations.
14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information
2004/42/EC (VOC): 0 %

Additional information
For classification and labelling, see section 2.
Observe trade association/occupational health regulations.
Observe Chemical Ordinance, ChemO
Observe Chemical Risk Reduction Ordinance, ORRChem
Observe Air Quality Control regulation

National regulatory information
Employment restrictions: Observe restrictions to employment for juveniles 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, 7, 12, 16

Abbreviations and acronyms
vPvB = very persistent very bioaccumulative
PBT = persistent bioaccumulative toxic

Relevant H and EUH statements (number and full text)
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.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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.)