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

1.1. Product identifier
PRIMA CHLOR AKTIV

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
chlorine-based bleaching agents
Reserved for industrial and professional use.

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
Telex: +49/89/350608-47
Fax: +49/89/350608-47
Email: info@dr-schnell.de
Contact person: Josef Feuerstein
Telephone: +49/89/350608-46
Email: sdb@dr-schnell.de
Internet: www.dr-schnell.de
Responsible Department: Labor

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 Corr. 1A
Serious eye damage/eye irritation: Eye Dam. 1
Hazardous to the aquatic environment: Aquatic Acute 1
Hazard Statements:
Causes severe skin burns and eye damage.
Causes serious eye damage.
Very toxic to aquatic life.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazard components for labelling
Sodium hypochlorite, solution 13 % Cl active
Sodium hydroxide; caustic soda
Signal word: Danger
Pictograms:

Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
Precautionary statements
P273 Avoid release to the environment.
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.

Special labelling of certain mixtures
EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7681-52-9</td>
<td>Sodium hypochlorite, solution 13 % Cl active</td>
<td>231-668-3</td>
<td>017-011-00-1</td>
<td></td>
<td>10 - &lt; 15 %</td>
</tr>
<tr>
<td>1310-73-2</td>
<td>Sodium hydroxide; caustic soda</td>
<td>215-185-5</td>
<td>011-002-00-6</td>
<td></td>
<td>1 - &lt; 5 %</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% chlorine-based bleaching agents

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. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

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. Protect uninjured eye. Consult an ophthalmologist.

After ingestion
Do NOT induce vomiting. Rinse mouth immediately and drink plenty of 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.
The following symptoms may occur:
Causes severe skin burns and eye damage.
Necrosis
Cornea damage.
Risk of blindness
after ingestion:
Pain in mouth and throat
gastro-intestinal ailment.
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
Eye baths

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
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
Hydrogen chloride (HCl).

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.
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
Provide adequate ventilation.
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).
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.
Handle and open container with care.
Carefully avoid polluting product with other materials.
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 product closed and only in original packing.
Not to be stored in gangways or stair wells.
Do not use materials not resistant to alkali.
Protect from sunlight.
Store in a place accessible by authorized persons only.

Advice on storage compatibility
Do not store with acids.

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>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1310-73-2</td>
<td>Sodium hydroxide</td>
<td>-</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>2</td>
<td>STEL (15 min)</td>
<td>WEL</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 nitrile (EN 374), Permeation time (penetration time) in minutes: 480
Protective gloves made of natural latex (EN 374), Permeation time (penetration time) in minutes: 480
Recommendation: Manufacturer: KCL GmbH, D-36124 Eichenzell, E-mail: vertrieb@kcl.de
Specification No.: 706 Lapren, 730 Camatril Velours
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)

Respiratory protection
Wear suitable respiratory equipments in case of gas development. Filter A B (EN 14387)
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

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>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>&gt;100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>not applicable</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density (at 20 °C):</td>
<td>1,22 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>easily soluble</td>
</tr>
</tbody>
</table>

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 10.4 to 10.6.
Impurities may cause catalytic decomposition (see subsection 10.5).

10.3. Possibility of hazardous reactions
Contact with acids liberates toxic gas.

10.4. Conditions to avoid
See also section 7.
Exposure to light and heat - Reduction of active chlorine content
10.5. Incompatible materials
Contact with strong acids leads to strong reaction and heat production
Avoid contact with other chemicals.
Avoid contact with oxidants.
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.
Warning! Do not use together with other products. May release dangerous gases (chlorine).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite, solution 13 % Cl active</td>
<td>7681-52-9</td>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>1100</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>&gt;20000</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (1 h) vapour</td>
<td>LC50 mg/l</td>
<td>10.5</td>
<td>Rat</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
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
- Dispose of waste according to applicable legislation.
- Neutralisation possible by an expert.
- The waste requires particular supervision.
- For example: designated incinerator
- E.g. dispose at suitable refuse site.
- Do not put in household waste.

Waste disposal number of waste from residues/unused products
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: UN 1791
14.2. UN proper shipping name: HYPOCHLORITE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Classification code: C9
Special Provisions: 521
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 1791
14.2. UN proper shipping name: HYPOCHLORITE SOLUTION
14.3. Transport hazard class(es): 8
## 14.4. Packing group:
II

### Hazard label:
8

### Classification code:
C9

### Special Provisions:
521

### Limited quantity:
1 L

### Excepted quantity:
E2

### Marine transport (IMDG)

#### 14.1. UN number:
UN 1791

#### 14.2. UN proper shipping name:
HYPOCHLORITE SOLUTION

#### 14.3. Transport hazard class(es):
8

#### 14.4. Packing group:
II

### Hazard label:
8

### Special Provisions:
-

### Limited quantity:
1 L

### Excepted quantity:
E2

### EmS:
F-A, S-B

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

#### 14.1. UN number:
UN 1791

#### 14.2. UN proper shipping name:
HYPOCHLORITE 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

### Passenger LQ:
Y840

### Excepted quantity:
E2

### IATA-packing instructions - Passenger:
851

### IATA-max. quantity - Passenger:
1 L

### IATA-packing instructions - Cargo:
855

### IATA-max. quantity - Cargo:
30 L

## 14.5. Environmental hazards

### ENVIRONMENTALLY HAZARDOUS:
yes

### Danger releasing substance:
sodium hypochlorite

## 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%

Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

#### 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 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, 16

Abbreviations and acronyms
vPvB = very persistent very bioaccumulative
PBT = persistent bioaccumulative toxic
AOX = adsorbable organic halogen compounds

Relevant H and EUH statements (number and full text)
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
EUH031 Contact with acids liberates toxic gas.
EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

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.)