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

1.1. Product identifier
RAPA PEARL

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
email: 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 Statements:
Causes serious eye irritation.
Causes skin 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
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.
P302+P352 IF ON SKIN: Wash with plenty of water.
P310 Immediately call a POISON CENTER/doctor.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Additional advice on labelling
H318: Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
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>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>97489-15-1</td>
<td>Sulfonic acids, C14-17-sec-alkane, sodium salts</td>
<td>5 - &lt; 10 %</td>
<td></td>
<td>307-055-2</td>
<td>01-2119489924-20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26183-52-8</td>
<td>Fatty alcohol polyglycol ethers</td>
<td>1 - &lt; 5 %</td>
<td></td>
<td>01-2119484688-17</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>85736-63-6</td>
<td>C12-14-(geradzahlig) Alkyl(hydroxyethyl)dimethyl-chlorid</td>
<td>1 - &lt; 5 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Classification according to Regulation (EC) No. 1272/2008 [CLP]
(1-hydroxy ethylidene) biphosphonic, compound with 2-aminoethanol
20 - < 25 %
Skin Irrit. 2, Eye Irrit. 2; H315 H319

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

Labelling for contents according to Regulation (EC) No 648/2004
5 % - < 15 % anionic surfactants, < 5 % phosphonates, < 5 % non-ionic surfactants, < 5 % cationic surfactants, perfumes (Linalool, Coumarin).

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.
Call a physician immediately. To be accompanied by MSDS.

After ingesting
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.

4.3. Indication of any immediate medical attention and special treatment needed
SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media
No information available.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Oxides of carbon.
Nitrogen oxides (NOx).
Sulfur oxides.
Pyrolysis products, 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.
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.

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 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)
If necessary Wear face protection. (EN 166)

Hand protection
Suitable gloves type:
Protective gloves made of butyl rubber (EN 374) Permeation time (penetration time) in minutes: 480
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.
When exceeding the occupational exposure limit (OEL): Filter A (EN 14387), brown
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

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>violet</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH-Value:</td>
<td>~8</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 determined</td>
</tr>
<tr>
<td>Sustaining combustion:</td>
<td>Not sustaining combustion</td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>Property</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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower explosion limits:</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limits:</td>
<td>not determined</td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td>not determined</td>
</tr>
</tbody>
</table>

Auto-ignition temperature

<table>
<thead>
<tr>
<th>Property</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>

Oxidizing properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure:</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>not determined</td>
</tr>
<tr>
<td>Density:</td>
<td>~1,02 g/cm³</td>
</tr>
<tr>
<td>Bulk density:</td>
<td>not determined</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>easily soluble.</td>
</tr>
</tbody>
</table>

Solubility in other solvents

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient:</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity / dynamic:</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity / kinematic:</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>not determined</td>
</tr>
<tr>
<td>Solvent content:</td>
<td>not determined</td>
</tr>
</tbody>
</table>

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 10.2 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
See also Subsection 10.1 to 10.6.
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 oxidants
Avoid contact with other chemicals.

10.6. Hazardous decomposition products
See also Subsection 10.1 to 10.5.
Also refer to section 5.3.
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>97489-15-1</td>
<td>Sulfonic acids, C14-17-sec-alkane, sodium salts</td>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>&gt;2000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 mg/kg</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 mg/kg</td>
<td>&gt;2000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>-</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
<td>LC50 mg/l</td>
<td>-</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>85736-63-6</td>
<td>C12-14-(geradzahlig) Alkyl(hydroxyethyl)dimethyl-chlorid</td>
<td>oral</td>
<td>LD50 &gt;200-2000 mg/kg</td>
<td>Rat</td>
<td></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>96</td>
<td>Brachydanio rerio (zebra-fish)</td>
<td>Species</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</td>
<td>Scenedesmus subspicatus</td>
<td>Source</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</td>
<td>Daphnia magna</td>
<td>Method</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>- mg/l</td>
<td>96</td>
<td>No data available</td>
<td>Source</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>Species</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>Source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>85736-63-6</td>
<td>C12-14-(geradzahlig) Alkyl(hydroxyethyl)dimethyl-chlorid</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>4,2 mg/l</td>
<td>96</td>
<td>Brachydanio rerio (zebra-fish)</td>
<td>Species</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</td>
<td>Desmodesmus subspicatus</td>
<td>Source</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</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
<td>Source</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

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

Waste disposal number of used product

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

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.

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): 0,055 %

Additional information

For classification and labelling, see section 2.
Observe Chemical Ordinance, ChemO
Observe Chemical Risk Reduction Ordinance, ORRChem
Observe Air Quality Control regulation
Safety Data Sheet

according to Regulation (EC) No 1907/2006

RAPA PEARL

Revision date: 06.09.2018 Product code: 70366_CLP

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, 6, 15, 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.)