DR.SCHNELL GmbH & Co. KGaA

Safety Data Sheet

according to Regulation (EC) No 1907/2006

RAPA COLOR

Revision date: 14.08.2018  Product code: 60004_CLP  Page 1 of 9

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

1.1. Product identifier
   RAPA COLOR

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
   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:
     - Acute toxicity: Acute Tox. 4
     - Serious eye damage/eye irritation: Eye Dam. 1
   - Hazard Statements:
     - Causes serious eye irritation.

2.2. Label elements

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

   - Hazard statements
     - H319 Causes serious eye irritation.
   - Precautionary statements
     - P280 Wear protective gloves/protective clothing/eye protection/face protection.
     - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
     - P337+P313 If eye irritation persists: Get medical advice/attention.

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>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>fatty alcohol ethoxylate</td>
<td>10-25%</td>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4, Eye Dam. 1; H302 H318</td>
</tr>
<tr>
<td>97489-15-1</td>
<td>Sulfonic acids, C14-17-sec-alkane, sodium salts</td>
<td>5-10%</td>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412</td>
</tr>
<tr>
<td>307-055-2</td>
<td>Glycerol</td>
<td>3-10%</td>
<td></td>
<td></td>
<td></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)
- 5 % - 15 % Soap, nonionic surfactants, anionic surfactants
- < 5 % phosphonates
- enzymes, perfumes (limonene)
- Benzisothiazolinone, Methylisothiazolinone

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
  - In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Protect uninjured eye. To be accompanied by MSDS.

- 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.

4.3. Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. 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
- High power water jet.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products:
- Oxides of carbon, Sulfur oxides.

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
- Use personal protection equipment.
- Keep unprotected persons away.
- Special danger of slipping by leaking/spilling product.

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.

6.4. Reference to other sections
- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: 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.

Advice on protection against fire and explosion
- No special fire protection measures are necessary.

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
- Keep container tightly closed.
- 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.
- Protect against direct sunlight.
- Do not store at temperatures over: 30°C

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>56-81-5</td>
<td>Glycerol, mist</td>
<td></td>
<td>-</td>
<td>10</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
- Applies only if maximum permissible exposure values are listed here.

8.2. Exposure controls

Appropriate engineering controls
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- Do not breathe gas/fumes/vapour/spray.
- 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
- Suitable eye protection: Tightly sealed safety glasses. (EN 166)

Hand protection
- Recommendation: Chemical-resistant protective gloves (EN 374)
- If necessary: On short hand contact:
  - Protective gloves of neoprene (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
- Wear suitable protective clothing.

Respiratory protection
- Usually no personal respirative protection necessary.
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>red violet</td>
</tr>
<tr>
<td>Odour</td>
<td>Fragranced</td>
</tr>
<tr>
<td>pH-Value (at 20 °C)</td>
<td>8-9</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>&gt; 100 °C</td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not applicable</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

Explosive properties

The product is not: Explosive

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

Decomposition temperature: not determined

Oxidizing properties

not determined

<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>~1,07 g/cm³</td>
</tr>
<tr>
<td>Bulk density</td>
<td>not determined</td>
</tr>
<tr>
<td>Water solubility</td>
<td>completely miscible</td>
</tr>
</tbody>
</table>

Solubility in other solvents

not determined

<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>230 mPa·s</td>
</tr>
<tr>
<td>(at 20 °C)</td>
<td></td>
</tr>
<tr>
<td>Viscosity / kinematic</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour density</td>
<td>not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not determined</td>
</tr>
<tr>
<td>Solvent content</td>
<td>not determined</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid content</td>
<td>not determined</td>
</tr>
<tr>
<td>Mixability</td>
<td>not determined</td>
</tr>
<tr>
<td>Fat solubility (g/l)</td>
<td>not determined</td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

10.1. Reactivity
Have not been tested.

10.2. Chemical stability
Stable with proper storage and handling.

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
See also section 7.

10.5. Incompatible materials
See also section 7.

10.6. Hazardous decomposition products
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.

ATEmix calculated
ATE (oral) 1429.4 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>fatty alcohol ethoxylate</td>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>&gt;2000</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<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>dermal</td>
<td>LD50 mg/kg</td>
<td>&gt;2000</td>
<td>Mouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56-81-5</td>
<td>Glycerol</td>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>12600</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>&gt;18700</td>
<td>Rabbit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes serious eye irritation.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
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 [h] [d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>fatty alcohol ethoxylate</td>
<td></td>
<td>Acute fish toxicity</td>
<td>LC50 mg/l 1-10</td>
<td>96 h</td>
<td>Brachydanio rerio (zebra-fish)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50 mg/l 1-10</td>
<td>72 h</td>
<td>Scenedesmus subspicatus</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50 mg/l 1-10</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>97489-15-1</td>
<td>Sulfonic acids, C14-17-sec-alkane, sodium salts</td>
<td>Acute fish toxicity</td>
<td>LC50 mg/l 1-10</td>
<td>96 h</td>
<td>Brachydanio rerio (zebra-fish)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50 &gt;61 mg/l</td>
<td>72 h</td>
<td>Scenedesmus subspicatus</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50 &gt;9,81</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>56-81-5</td>
<td>Glycerol</td>
<td>Acute fish toxicity</td>
<td>LC50 mg/l &gt;5000</td>
<td>96 h</td>
<td>Carassius auratus (goldfish)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50 &gt;10000</td>
<td>Belebschlamm</td>
<td>Pseudomonas putida</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
Further information
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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.
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

Waste disposal number of contaminated packaging
150102  WASTE PACKAGING; ABSORBENTS, WIPE 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.
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
2010/75/EU (VOC): 0 %
2004/42/EC (VOC): 0 %

Additional information

National regulatory information
Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes
Revised sections: 1, 2, 5, 6, 7, 8, 9; 11, 12, 15, 16

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(IMD: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
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.)