Pack zu 15 Klarspüler

1.1. Product identifier
Pack zu 15 Klarspüler

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
- Washing and cleaning products (including solvent based products)
- Professional use of dishwash products
- AISE-P204 Rinse aid; Automatic process

1.3. Details of the supplier of the safety data sheet
Company name: Seeger Wasch- und Reinigungsmittel GmbH
Street: Schickhardtstraße 7
Place: D-72336 Balingen
Post-office box: D-72309 Balingen
Telephone: +49 (0)7433 9600
Fax: +49 (0)7433 960-150
E-mail: info@seeger-balingen.com
Internet: www.seeger-sauber.de
Responsible Department: Labor

1.4. Emergency telephone number: 030-30686700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008
This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements
Regulation (EC) No. 1272/2008
Precautionary statements
- P102 Keep out of reach of children.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special labelling of certain mixtures
- EUH210 Safety data sheet available on request.

2.3. Other hazards
No information available.

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>-</td>
<td>Fatty acid, ethoxylated</td>
<td>10 - 15%</td>
</tr>
<tr>
<td>-</td>
<td>Acute Tox. 4, Eye Irrit. 2, Aquatic Chronic 3; H302 H319 H412</td>
<td></td>
</tr>
<tr>
<td>5949-29-1</td>
<td>Citric acid, monohydrate</td>
<td>1 - 5%</td>
</tr>
<tr>
<td>201-069-1</td>
<td>01-2119457026-42</td>
<td></td>
</tr>
<tr>
<td>15763-76-5</td>
<td>sodium p cumenesulphonate</td>
<td>1 - 5%</td>
</tr>
<tr>
<td>239-854-8</td>
<td>01-2119489411</td>
<td></td>
</tr>
</tbody>
</table>

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

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

### SECTION 4: First aid measures

**4.1. Description of first aid measures**

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

**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**

Treat symptomatically.

### SECTION 5: Firefighting measures

**5.1. Extinguishing media**

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

Non-flammable.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into surface water or drains.

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

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep container tightly closed.
Advice on storage compatibility
No special measures are necessary.

7.3. Specific end use(s)
Washing and cleaning products (including solvent based products)
Professional use of dishwash products
AISE-P204 Rinse aid; Automatic process

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
PNEC values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Environmental compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>5949-29-1</td>
<td>Citric acid, monohydrate</td>
<td>Freshwater</td>
<td>0.44 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.044 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater sediment</td>
<td>3.46 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine sediment</td>
<td>34.6 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>&gt; 1000 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>33.1 mg/kg</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Protective and hygiene measures
Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection
Wear eye/face protection.

Hand protection
When handling with chemical substances, protective gloves must be worn with the CE-label including the four
control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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**

In case of inadequate ventilation wear respiratory protection.

### 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>clear, blue</td>
</tr>
<tr>
<td>Odour</td>
<td>surfactant-like</td>
</tr>
<tr>
<td><strong>pH-Value (at 20 °C)</strong></td>
<td>2.5-3</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>not determined</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>100 °C</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>not applicable</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
<tr>
<td><strong>Lower explosion limits</strong></td>
<td>not determined</td>
</tr>
<tr>
<td><strong>Upper explosion limits</strong></td>
<td>not determined</td>
</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
<td>&gt; 200 °C</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>not applicable</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>not determined</td>
</tr>
<tr>
<td><strong>Oxidizing properties</strong></td>
<td></td>
</tr>
<tr>
<td>Not oxidizing</td>
<td></td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>0.1 hPa</td>
</tr>
<tr>
<td>(at 20 °C)</td>
<td></td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>1.02 g/cm³</td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td>easily soluble</td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td>not determined</td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
<td>not determined</td>
</tr>
<tr>
<td><strong>Viscosity / dynamic</strong></td>
<td>&lt;30 mPa·s</td>
</tr>
<tr>
<td>(at 20 °C)</td>
<td></td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>not determined</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>not determined</td>
</tr>
<tr>
<td><strong>Solid content</strong></td>
<td>not determined</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

---

Revision No: 1.00  GB - EN  Revision date: 08.01.2015
SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
none

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fatty acid, ethoxylated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>oral</td>
<td>LD50</td>
<td>Rat</td>
<td>OECD 423</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5949-29-1</td>
<td>Citric acid, monohydrate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>oral</td>
<td>LD50</td>
<td>Mouse</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5400 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15763-76-5</td>
<td>sodium p cumenesulphonate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>oral</td>
<td>LD50</td>
<td>Rat</td>
<td>OECD 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2000 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2000 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>inhalative (4 h) vapour</td>
<td>LC50</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/l</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information on tests
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity
The product is not: Ecotoxic.
### 12.2. Persistence and degradability

The product has not been tested.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Value</th>
<th>d</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fatty acid, ethoxylated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OECD 301B/ISO 9439/EEC 92/69/V.C.4-C</td>
<td></td>
<td>&gt;60%</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Readily biodegradable (according to OECD criteria).</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information 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**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**
SECTION 14: Transport information

**Land transport (ADR/RID)**

14.1. **UN number:** No dangerous good in sense of this transport regulation.

14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.

14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.

14.4. **Packing group:** No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

14.1. **UN number:** No dangerous good in sense of this transport regulation.

14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.

14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.

14.4. **Packing group:** No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

14.1. **UN number:** No dangerous good in sense of this transport regulation.

14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.

14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.

14.4. **Packing group:** No dangerous good in sense of this transport regulation.

**Air transport (ICAO)**

14.1. **UN number:** No dangerous good in sense of this transport regulation.

14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.

14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.

14.4. **Packing group:** No dangerous good in sense of this transport regulation.

14.5. **Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

14.6. **Special precautions for user**

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
Pack zu 15 Klarspüler

EU regulatory information
2010/75/EU (VOC):
10 % (103 g/l)
2004/42/EC (VOC):
0.6 % (6.18 g/l)

Additional information
Regulation (EC) No. 648/2004 (Detergents regulation)

National regulatory information
Water contaminating class (D):
2 - water contaminating

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

SECTION 16: Other information

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.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
EUH210 Safety data sheet available on request.

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.)