Doyen R 100

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

1.1. Product identifier
Trade name/designation: Doyen R 100

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)

1.3. Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/only representative/downstream user/distributor):
etol-Werk Eberhard Tripp GmbH & Co.OHG
Allerheiligenstr. 12
77728 Oppenau
Germany
Telephone: +49(0)7804/41-0
Telefax: +49(0)7804/41-168
E-mail: info@etol.de
Website: www.etol.de

1.4. Emergency telephone number
Vergiftungs-Informations-Zentrale Freiburg, 24h: +49(0)76119240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Hazard classes and hazard categories</th>
<th>Hazard statements</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation (Eye Dam. 1)</td>
<td>H318: Causes serious eye damage.</td>
<td></td>
</tr>
</tbody>
</table>

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms:

Signal word: Danger

Hazard components for labelling:
alkyl ether carboxylic acid; Glycin, N-(2-(2-Hydroxyethyl)amino)ethyl-, N-coco acyl derivatives, sodium-salt

<table>
<thead>
<tr>
<th>hazard statements for health hazards</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
</tbody>
</table>

Supplemental Hazard information (EU): -
Precautionary statements Prevention

P280.6 Wear eye/face protection.
Doyen R 100

Precautionary statements

Response

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/....

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

<table>
<thead>
<tr>
<th>product identifiers</th>
<th>Substance name</th>
<th>Classification according to Regulation (EC) No 1272/2008 [CL P]</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.: 53563-70-5</td>
<td>alkyl ether caboxyclic acid</td>
<td>Eye Dam. 1</td>
<td>1 – 2 Wt %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>{Danger} H318</td>
<td></td>
</tr>
<tr>
<td>CAS No.: 61791-32-0</td>
<td>Glycin, N-(2-(2-Hydroxyethyl)amino)ethyl-, N-coco acyl derivatives, sodium salt</td>
<td>Eye Dam. 1</td>
<td>1 – 2 Wt %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>{Danger} H318</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:
Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion:
Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:
Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed

Serious eye damage/eye irritation

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

Treat symptomatically.
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)
Revision date: 10-Feb-2016
Print date: 15-Feb-2016
Version: 6
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SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Co-ordinate fire-fighting measures to the fire surroundings.
Water
Carbon dioxide (CO2)
Extinguishing powder

5.2. Special hazards arising from the substance or mixture
The product itself does not burn.

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. 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
6.1.1. For non-emergency personnel
Personal precautions:
Remove persons to safety.
Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders
Personal protection equipment: see section 8

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

6.3. Methods and material for containment and cleaning up
For containment:
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
For cleaning up:
Water Water (with cleaning agent)

6.4. Reference to other sections
Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information
Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Protective measures
Advises on safe handling:
Wear personal protection equipment (refer to section 8).
Fire prevent measures:
No special measures are necessary.
Advises on general occupational hygiene
When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions:
Keep container tightly closed.
Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes
Doyen R 100

7.3. Specific end use(s)
No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values
No data available

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values

<table>
<thead>
<tr>
<th>Substance name</th>
<th>DNEL value</th>
<th>① DNEL type</th>
<th>② Exposure route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction mass aus (2S)-Alanin,N,N-bis(carboxymethyl)-,trisodium salt</td>
<td>40 mg/m³</td>
<td>① DNEL worker</td>
<td>② DNEL acute inhalative (systemic)</td>
</tr>
<tr>
<td>CAS No.: 164462-16-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaction mass aus (2S)-Alanin,N,N-bis(carboxymethyl)-,trisodium salt</td>
<td>40 mg/m³</td>
<td>① DNEL worker</td>
<td>② DNEL long-term inhalative (systemic)</td>
</tr>
<tr>
<td>CAS No.: 164462-16-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaction mass aus (2S)-Alanin,N,N-bis(carboxymethyl)-,trisodium salt</td>
<td>4 mg/m³</td>
<td>① DNEL worker</td>
<td>② DNEL long-term inhalative (local)</td>
</tr>
<tr>
<td>CAS No.: 164462-16-2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance name</th>
<th>PNEC Value</th>
<th>① PNEC type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction mass aus (2S)-Alanin,N,N-bis(carboxymethyl)-,trisodium salt</td>
<td>2 mg/l</td>
<td>① PNEC aquatic, freshwater</td>
</tr>
<tr>
<td>CAS No.: 164462-16-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaction mass aus (2S)-Alanin,N,N-bis(carboxymethyl)-,trisodium salt</td>
<td>0.2 mg/l</td>
<td>① PNEC aquatic, marine water</td>
</tr>
<tr>
<td>CAS No.: 164462-16-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaction mass aus (2S)-Alanin,N,N-bis(carboxymethyl)-,trisodium salt</td>
<td>1 mg/l</td>
<td>① PNEC aquatic, intermittent release</td>
</tr>
<tr>
<td>CAS No.: 164462-16-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaction mass aus (2S)-Alanin,N,N-bis(carboxymethyl)-,trisodium salt</td>
<td>100 mg/l</td>
<td>① PNEC sewage treatment plant (STP)</td>
</tr>
<tr>
<td>CAS No.: 164462-16-2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

8.2.1. Appropriate engineering controls
No data available

8.2.2. Personal protection equipment

Eye/face protection:
Eye glasses with side protection DIN EN 166

8.2.3. Environmental exposure controls
No data available

8.3. Additional information
No data available
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

**Appearance**
- **Physical state:** liquid
- **Colour:** yellow

**Odour:** odourless

**Safety relevant basis data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>at °C</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>11.9</td>
<td>20 °C</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freezing point</td>
<td>≈ 0 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt; 90 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature (°C):</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition temperature in °C</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>1.1 g/cm³</td>
<td>20 °C</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water solubility (g/L)</td>
<td>completely miscible</td>
<td>20 °C</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>not determined</td>
<td>40 °C</td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

**Acute oral toxicity:**

The classification criteria for this hazard class are not met by definition.

**Acute dermal toxicity:**

The classification criteria for this hazard class are not met by definition.
Doyen R 100

**Acute inhalation toxicity:**
The classification criteria for this hazard class are not met by definition.

**Skin corrosion/irritation:**
The classification criteria for this hazard class are not met by definition.

**Eye damage/irritation:**
Causes serious eye damage.

**Respiratory or skin sensitisation:**
The classification criteria for this hazard class are not met by definition.

**Germ cell mutagenicity:**
The classification criteria for this hazard class are not met by definition.

**Carcinogenicity:**
The classification criteria for this hazard class are not met by definition.

**Reproductive toxicity:**
The classification criteria for this hazard class are not met by definition.

**STOT-single exposure:**
The classification criteria for this hazard class are not met by definition.

**STOT-repeated exposure:**
The classification criteria for this hazard class are not met by definition.

**Aspiration hazard:**
The classification criteria for this hazard class are not met by definition.

**Additional information:**
No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance name</th>
<th>Toxicological information</th>
</tr>
</thead>
<tbody>
<tr>
<td>53563-70-5</td>
<td>alkyl ether carboxylic acid</td>
<td>( LC_{50} \gt 100 \text{ mg/l} \ 4 \text{ d} )</td>
</tr>
<tr>
<td></td>
<td></td>
<td>( EC_{50} \gt 67 \text{ mg/l} \ 2 \text{ d} )</td>
</tr>
<tr>
<td>61791-32-0</td>
<td>Glycin, N-(2-(2-Hydroxyethyl)amino)ethyl-, N-coco acyl derivatives, sodium salt</td>
<td>( EC_{50} \gt 6.4 \text{ mg/l} \ 2 \text{ d} ) (Daphnia magna (Big water flea))</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance name</th>
<th>Biodegradation</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>53563-70-5</td>
<td>alkyl ether carboxylic acid</td>
<td>Yes, rapidly</td>
<td></td>
</tr>
<tr>
<td>61791-32-0</td>
<td>Glycin, N-(2-(2-Hydroxyethyl)amino)ethyl-, N-coco acyl derivatives, sodium salt</td>
<td>Yes, rapidly</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential
No data available

#### 12.4. Mobility in soil
No data available

#### 12.5. Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects
No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal
Waste codes/waste designations according to EWC/AVV
Waste code product:

07 06 99  Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics: Wastes not otherwise specified

Waste code packaging:

15 01 06  mixed packaging

Waste treatment options

Appropriate disposal / Product:
Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:
Completely emptied packages can be recycled.

13.2. Additional information
No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.
not relevant

14.2. UN proper shipping name
not relevant

14.3. Transport hazard class(es)
not relevant

14.4. Packing group
not relevant

14.5. Environmental hazards
not relevant

14.6. Special precautions for user
not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation
No data available

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)
WGK:
1 - schwach wassergefährdend

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

15.3. Additional information
No data available
### SECTION 16: Other information

**16.1. Indication of changes**
- 15.2. Chemical Safety Assessment
- 2.1. Classification of the substance or mixture
- 3.2. Mixtures
- 8.1 Control parameters

**16.2. Abbreviations and acronyms**
No data available

**16.3. Key literature references and sources for data**
No data available

**16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

Classification according to Regulation (EC) No 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Hazard classes and hazard categories</th>
<th>Hazard statements</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation (Eye Dam. 1)</td>
<td>H318: Causes serious eye damage.</td>
<td></td>
</tr>
</tbody>
</table>

**16.5. Relevant R-, H- and EUH-phrases (Number and full text)**

<table>
<thead>
<tr>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H318 Causes serious eye damage.</td>
</tr>
</tbody>
</table>

**16.6. Training advice**
No data available

**16.7. Additional 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.