**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006 (REACH)
with its amendment Regulation (EU) 2015/830

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**Compilation date:** 18.02.2011  
**Revision date:** 10.12.2018  
**Revision No:** 6.2

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### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

*Product name:* Rinse aid tab for all RATIONAL SelfCookingCenter® models without Efficient CareControl and CombiMaster® Plus models with automatic cleaning, Art.-No. 56.00.208, 56.00.211

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of substance / mixture:** Rinsing agent for SelfCooking Center for professional users

#### 1.3. Details of the supplier of the safety data sheet

**Company name:** RATIONAL AG  
Siegfried-Meister-Straße 1  
86899 Landsberg am Lech  
Germany  
**Tel:** +49 8191 327-2563  
**Fax:** +49 8191 327-72 2563  
**Email:** reinigung@rational.com

#### 1.4. Emergency telephone number

**Emergency tel:** +49 89 19 240  
**NPIS:** 0870 600 62666  
Giftnotruf München 'Klinikum rechts der Isar'  
National poison information service (UK)

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### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** Eye Irrit. 2: H319  
**Most important adverse effects:** Causes serious eye irritation.

#### 2.2. Label elements

**Hazard statements:** H319: Causes serious eye irritation.  
**Hazard pictograms:** GHS07: Exclamation mark

**Signal words:** Warning

**Precautionary statements:** P102: Keep out of reach of children.  
P101: If medical advice is needed, have product container or label at hand.  
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.

[cont...]
2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

CITRIC ACID - REACH registered number(s): 01-2119457026-42-0000

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>SCL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>201-069-1</td>
<td>77-92-9</td>
<td>-</td>
<td>Eye Irrit. 2: H319</td>
<td>&gt;20%</td>
</tr>
</tbody>
</table>

FATTY ALCOHOL ALCOXYLATE – REACH registered number(s): 02-2119548508-30-0000

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>SCL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>120313-48-6</td>
<td>-</td>
<td>Skin Irrit. 2: H315</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Not applicable.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.
5.3. Advice for fire-fighters

Advice for fire-fighters: Not applicable.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Wash the spillage site with large amounts of water. Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

*DNEL/PNEC Values

Hazardous ingredients:

**CITRIC ACID**

<table>
<thead>
<tr>
<th>Type</th>
<th>Exposure</th>
<th>Value</th>
<th>Population</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNEL</td>
<td>not available</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PNEC</td>
<td>Fresh water</td>
<td>0,44 mg/l</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PNEC</td>
<td>Marine water</td>
<td>0,044 mg/l</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
KLARSPÜLER - RINSE AGENT

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Respiratory protection not required.
Hand protection: Not applicable.
Eye protection: Safety glasses. Ensure eye bath is to hand.
Skin protection: Not applicable.
Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid
Colour: White
Odour: Characteristic odour
Evaporation rate: Not applicable.
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Soluble
Viscosity: Not applicable.
Boiling point/range°C: Not applicable.
Flammability limits %: lower: Not applicable.
Flash point°C: Not applicable.
Autoflammability°C: No data available.
Relative density: 950 g/l
VOC g/l: <3%
Melting point/range°C: No data available.
Part.coeff. n-octanol/water: No data available.
Vapour pressure: Not applicable.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Humidity.
10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

CITRIC ACID

<table>
<thead>
<tr>
<th>Route</th>
<th>Species</th>
<th>LD50</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>5790</td>
<td>mg/kg</td>
</tr>
</tbody>
</table>

FATTY ALCOHOL ALCOXYLATE

<table>
<thead>
<tr>
<th>Route</th>
<th>Species</th>
<th>LD50</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORAL</td>
<td>RAT</td>
<td>&gt;2000</td>
<td>mg/kg</td>
</tr>
</tbody>
</table>

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be pain and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.
Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

CITRIC ACID

<table>
<thead>
<tr>
<th>Test organism</th>
<th>72H EC50</th>
<th>96H LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia magna</td>
<td>~120</td>
<td></td>
</tr>
<tr>
<td>Leuciscus idus</td>
<td></td>
<td>440-706</td>
</tr>
</tbody>
</table>

FATTY ALCOHOL ALCOXYLATE

<table>
<thead>
<tr>
<th>Test organism</th>
<th>96H LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leuciscus idus</td>
<td>1-10</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.
12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 20 01 29

Disposal of packaging: May be reused following decontamination.

NB: The user’s attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: Ingredients according to Regulation (EC) No 648/2004: <5% non-ionic surfactants.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Data references: Safety data sheets from our raw material suppliers

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 (CLP):

Calculation method

Phrases used in s.2 and s.3:

H315: Causes skin irritation.

H319: Causes serious eye irritation.
Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.