

Material Safety Data Sheet

According to 91/155 EEC

Printing date 06.04.2009

Reviewed on 21.08.2007

1 Identification of substance:

- **Product details:**

- **Trade name:** Rinsing-Tab for RATIONAL SelfCooking Center®

- **Product - No.:** 56,00,208; 56,00,211

- **Application of the substance / the preparation** Clear rinsing agent / Wetting agent

- **Manufacturer/Supplier:**

Rational AG
Iglinger Straße 62
D-86899 Landsberg



Tel.: ++49-(0)8191 - 32 70
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- **Informing department:** Produktmanagement, E.mail: reinigung@rational-online.de

- **Emergency information:**

Internationale Giftzentrale Tel.: +49-(0)89-19240
"Rechts der Isar"

2 Composition/Data on components:

- **Chemical characterization**

- **Description:** Mixture of the substances listed below with harmless products.

- **Dangerous components:**

CAS: 5949-29-1 EINECS: 201-069-1	Citric acid, monohydrate	Xi; R 36	20-<50%
	fatty alcohol alkoxylate	Xi; R 38	1-<5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 36 Irritating to eyes.

4 First aid measures

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Rinse with plenty of water.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Seek immediate medical advice.

5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** None
- **Special hazards caused by the material, its products of combustion or flue gases:**
Carbon monoxide and carbon dioxide
- **Protective equipment:** Put on breathing apparatus.

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- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:** Avoid contact with eyes.
- **Measures for environmental protection:**
Do not allow large quantities of product to reach sewage system or water bodies.
- **Measures for cleaning/collecting:** Collect mechanically.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Avoid contact with eyes.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
Observe all workplace limits for dust:
OEL total dust: 10 mg/m³
OEL respirable dust: 3 mg/m³
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Do not eat, drink or smoke while working.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:** Tightly sealed safety glasses

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9 Physical and chemical properties:

· General Information

Form:	Tablets
Colour:	White
Smell:	Product specific

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

· **Flash point:** Not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Density** Not determined

· **Solubility in / Miscibility with Water:** Soluble

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Strong oxidizing agents
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Slightly irritating
- **on the eye:** Irritant effect
- **Sensitization:** No sensitizing effect known
- **Additional toxicological information:**
 The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
 Irritant

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is biodegradable.
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.

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· European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing. For that reason waste disposal key numbers different from that listed below may be possible.

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 29	detergents containing dangerous substances

· Uncleaned packagings:

· Recommendation:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

· Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

· ADR/RID-GGVS/E Class: -

· Maritime transport IMDG/GGVSea:

· IMDG/GGVSea Class: -

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: -

· Transport/Additional information: Not dangerous according to the above specifications.

15 Regulatory information

· Designation according to EC guidelines:

The product has been classified/labelled in accordance with EC Directives / relevant national laws.

· Code letter and hazard designation of product:



Xi Irritant

· Risk phrases:

36 Irritating to eyes.

· Safety phrases:

2 Keep out of the reach of children.

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

46 If swallowed, seek medical advice immediately and show this container or label.

· Ingredients according to Recommendation 89/542/EEC

non-ionic surfactants	< 5%
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· National regulations

· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· Relevant R-phrases

The(se) R-phrases are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.

36 Irritating to eyes.

38 Irritating to skin.

· Department issuing data specification sheet:

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