

# SAFETY DATA SHEET

Version number: 8.0  
Issued: 2022-11-07  
Replaces SDS: 2022-04-26

according to UN-GHS (ST/SG/AC.10/30/Rev.9)



## Rinse agent

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

#### 1.1. Product identifier

**Trade name**

Rinse agent

**Article No.**

56.00.211; 56.01.904

**UFI code**

45KD-KTCV-UJ18-7HF9

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

**Product type**

Rinse aid tab for all RATIONAL SelfCookingCenter® models without Efficient CareControl and CombiMaster® Plus models with automatic cleaning for professional users.

**Relevant identified uses**

All other uses are discouraged.

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

**Supplier**

RATIONAL AG

Street address

Siegfried-Meister-Straße 1  
86899 Landsberg am Lech  
Germany

Telephone

+49 8191 327 387

Email

reinigung@rational-online.com

Fax

+49 8191 327 231

Web site

www.rational-online.com

#### 1.4. Emergency telephone number

SOS Notruf/Emergency CONTACT (24-Hour-Hotline): +49 6132 844 63

**Available outside office hours**

Yes

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## Rinse agent

### SECTION 2: Hazards identification

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

##### Classification

Eye irritation, hazard category 2

Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation

##### Hazard statements

H319, H335

#### 2.2. Label elements

##### Hazard pictograms



##### Signal word

Warning

##### Hazard statements

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

##### Precautionary statements

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.

##### More information

Hazard components for labeling: Citric acid

#### 2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

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## Rinse agent

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Chemical name	CAS No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
citric acid	77-92-9	20 - 50%	Eye Irrit. 2, STOT SE 3 - resp. tract irrit.	H319, H335 - -	-
alcohols, C12-15-branched and linear, ethoxylated pro- poxylated	120313-48-6	1 - 5%	Skin Irrit. 2	H315 - -	-

#### ***Substance additional information***

For the complete text of H-statements mentioned in this section, see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### ***Description of first aid measures***

First responders: Pay attention to self-protection.

##### ***Inhalation***

Not applicable.

##### ***Skin contact***

Wash off with soap and water. In the case of skin irritation or allergic reactions see a physician.

##### ***Eye contact***

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

##### ***Ingestion***

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Consult a physician if necessary.

##### ***Information for doctors***

For specialist advice physicians should contact the Poisons Information Service.

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## Rinse agent

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

Immediate effects can be expected after long-term exposure.

#### Inhalation

Not applicable.

#### Skin contact

May cause skin irritation.

#### Eye contact

Eye irritation, cloudy / blurred field of vision, excessive lachrymation.

#### Ingestion

Nausea, vomiting, gastrointestinal discomfort.

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

Treat symptomatically.

Show this safety data sheet to the doctor in attendance.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide (CO<sub>2</sub>).

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

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

Hazardous decomposition products formed under fire conditions.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Measures in case of fire

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid direct contact with the material / product.

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### 6.2. Environmental precautions

Not required.

### 6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Dispose of as hazardous waste in compliance with local and national regulations.

### 6.4. Reference to other sections

For information on storage and handling see section 7.

For information on exposure and personal protective equipment, see Section 8.

For information on incompatible materials, see Section 10.

For information on disposal see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Avoid direct contact with the material / product. Wear personal protective equipment.

#### General hygiene

Wash hands after handling.

When using, do not eat, drink or smoke.

In addition, comply with all national and local regulations for the handling of chemicals.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feeding stuffs.

Store in a place accessible by authorized persons only. Keep out of reach of children.

Storage class according to TRGS 510: 13 (non-combustible solids)

Suitable container and packaging materials for safe storage: store in original container.

Storage temperature: 10°C to 40°C

### 7.3. Specific end use(s)

PC35: Detergents and cleaning products (including solvent-based products)

See section 1.2: Rinse aid tab for all SCC models

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

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### 8.2. Exposure controls

#### Appropriate engineering controls

Not required.

#### Eye / face protection

Safety glasses with side-shields conforming to EN166

#### Hand protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

#### Other skin protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

#### Respiratory protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

#### Thermal hazards

Not applicable

#### Environmental exposure controls

No special environmental precautions required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Tablet

#### Colour

White

#### Odour

Characteristic

#### Melting point / freezing point

Not applicable.

#### Boiling point or initial boiling point and boiling range

Not applicable.

#### Flammability

Not applicable.

#### Lower and upper explosion limit

The product / mixture has no explosive properties.

#### Flash point

No data available

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### Auto-ignition temperature

Not applicable.

### Decomposition temperature

No information available.

### pH

2.7

### **Method**

1 % aqueous solution

### Kinematic viscosity

Not applicable.

### Viscosity, dynamic

Not applicable.

### Solubility

Water soluble

### Water solubility

Completely soluble

### Partition coefficient n-octanol/water

No information available.

### Vapour pressure

Not applicable.

### Density and/or relative density

1015 - 1215 kg/m<sup>3</sup>

### **Method**

Bulk density

### Relative vapour density

Not applicable.

### Evaporation Rate

Not applicable.

### Explosive properties

The product / mixture has no explosive properties.

### Oxidising properties

The product / mixture has no oxidizing properties.

### VOC %

< 3 %

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## Rinse agent

### ***Particle characteristics***

This product / mixture does not contain any nanomaterials or nanoforms.

### **9.2. Other information**

No information available.

## SECTION 10: Stability and reactivity

### **10.1. Reactivity**

Stable at normal conditions

### **10.2. Chemical stability**

The product is chemically stable.

### **10.3. Possibility of hazardous reactions**

None under normal use.

### **10.4. Conditions to avoid**

Protect from moisture.

### **10.5. Incompatible materials**

Not applicable.

### **10.6. Hazardous decomposition products**

For information on combustion products, see Section 5.

Hazardous decomposition products formed under fire conditions.

## SECTION 11: Toxicological information

### **11.1. Information on hazard classes**

Toxicology data for the components.

#### ***Acute toxicity***

Based on the available data, the classification criteria are not met.

Product / Sub- stance name CAS no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline	Remarks
citric acid 77-92-9	LD50	5.400 mg/kg	Oral	mouse	OECD 401	ECHA
citric acid	LD50	>2.000 mg/kg	Dermal	rat	OECD 402	ECHA

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## Rinse agent

Product / Sub- stance name CAS no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline	Remarks
77-92-9						
alcohols, C12- 15-branched and linear, eth- oxylated pro- poxylated 120313-48-6	LD50	>2.000 mg/kg	Oral	rat	-	-

### Skin corrosion/irritation

Based on the available data, the classification criteria are not met.

### Serious eye damage/irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met.

### Germ cell mutagenicity

Based on the available data, the classification criteria are not met.

### Carcinogenicity

Based on the available data, the classification criteria are not met.

### Reproductive toxicity

Based on the available data, the classification criteria are not met.

### STOT-single exposure

May cause respiratory irritation.

### STOT-repeated exposure

Based on the available data, the classification criteria are not met.

### Aspiration hazard

Based on the available data, the classification criteria are not met.

## 11.2. Information on other hazards

### Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Toxicity

Toxicology data for the components.

##### Acute fish toxicity

Product / Substance name CAS no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
citric acid 77-92-9	LC50	440 mg/l	48 h	Leuciscus idus	OECD 203	ECHA
alcohols, C12-15-branched and linear, ethoxylated propoxylated 120313-48-6	LC50	>1 - 10 mg/l	96h	Leuciscus idus	-	-

##### Acute crustacean toxicity

Product / Substance name CAS no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
citric acid 77-92-9	LC50	1.535 mg/l	24 h	Daphnia magna	ECHA
alcohols, C12-15-branched and linear, ethoxylated propoxylated 120313-48-6	EC50	>1 - 10 mg/l	48h	Daphnia magna	-

#### 12.2. Persistence and degradability

##### Persistence and degradability

Readily biodegradable, according to appropriate OECD test.

OECD test guideline: 301 B (CO2 Evolution test)

The surfactants contained in this mixture / product meet the requirements for biodegradability in accordance with Regulation (EC) No. 648/2004 on detergents.

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### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

#### Mobility

No information available.

### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB.

### 12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties.

### 12.7. Other adverse effects

#### Other adverse effects

This product / mixture does not contain any substances that deplete the ozone layer.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

#### Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging / sheets: Dispose of as unused product.

Waste code	Waste description
20 01 29*	detergents containing hazardous substances

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

## SECTION 14: Transport information

### 14.1. UN number

No dangerous goods in the sense of the transport regulations

### 14.2. UN proper shipping name

#### ADR / RID / ADN proper shipping name

No dangerous goods in the sense of the transport regulations

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### 14.3. Transport hazard class(es)

Label

No dangerous goods in the sense of the transport regulations

### 14.4. Packing group

No dangerous goods in the sense of the transport regulations

### 14.5. Environmental hazards

Environmental hazards

No dangerous goods in the sense of the transport regulations

### 14.6. Special precautions for user

Special precautions for user

No dangerous goods in the sense of the transport regulations

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

### Other

Not applicable

## SECTION 15: Regulatory information

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

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

### 15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

## SECTION 16: Other information

Changes to previous revision

Section 2 & 3: Change in classification and labeling.

Abbreviations

ADN - Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR - Accord relatif au transport international des marchandises Dangereuses par Route

CAS - Chemical Abstract Service

CLP - Classification, Labelling and Packaging

DMEL - Derived Minimum Effect Level

DNEL - Derived no effect level

EC50 - Half maximal effective concentration 50%

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GHS - Globally Harmonised System  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal concentration 50%  
LD50 - Lethal dosis 50 %  
MARPOL - International Convention for the Prevention of Pollution from Ships  
PBT - Persistent, bioaccumulative and toxic substance  
PEC - Predicted Environmental Concentration  
PNEC - predicted no effect concentration  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID - Reglement concernant le transport international ferroviaire de marchandises Dangereuses  
SVHC - Substance of very high concern  
vPvB - Very persistent, very bioaccumulative substance

### **References to key literature and data sources**

REACH registration dossiers  
ECHA C&L - Inventory  
Safety data sheets from raw material suppliers

### **Evaluation methods for classification**

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

### **Phrase meaning**

Eye Irrit. 2 - Eye irritation, hazard category 2  
STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation  
Skin Irrit. 2 - Skin irritation, hazard category 2  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

### **Manufacturer's notes**

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.