

Safety Data Sheet

according to WHMIS

Care-Tab for RATIONAL SelfCooking Center®, Art. Nr. 56.00.560, 56.00.562

Print date: 19.03.2013

Product code: 00625-0016

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

Product identifier

Care-Tab for RATIONAL SelfCooking Center®, Art. Nr. 56.00.560, 56.00.562

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Preservative agent



Details of the supplier of the safety data sheet

Company name: Rational AG
 Street: Iglinger Strasse 62
 Place: D-86899 Landsberg
 Telephone: +49 (0)8191-3270 Telefax: +49 (0)8191-21735
 Responsible Department: Responsible for the safety data sheet: reinigung@rational-online.de

Emergency telephone: n North America contact Info Trac at 1-800-535-5053 outside USA/CA: ++49 (0)89-19240

SECTION 2: Hazards identification

Classification of the substance or mixture

Indications of danger: Xi - Irritant

R phrases:

Irritating to eyes and skin.

Other hazards

Not known.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Chemical name	Quantity
77-92-9	Citric acid	> 20 %
617-48-1	Malic acid	> 20 %
124-04-9	Adipic acid	1 - 5 %

SECTION 4: First aid measures

Description of first aid measures

General information

If you feel unwell, seek medical advice.

After inhalation

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

After contact with skin

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Rinse out mouth thoroughly with water.

Do not induce vomiting.

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Never give anything by mouth to an unconscious person.
Summon a doctor immediately.

Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

Extinguishing media which must not be used for safety reasons

Full water jet

Special hazards arising from the substance or mixture

Fire may produce:

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

Advice for firefighters

Use breathing apparatus with independent air supply.

Protective suit

Additional information

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

No special precautions required.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Pick up mechanically, avoiding dust, and provide disposal in suitable recipients.

Flush away residues with water.

Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.

SECTION 7: Handling and storage**Precautions for safe handling****Advice on safe handling**

Avoid the formation of dust.

Avoid contact with eyes, skin or mucous membrane.

Advice on protection against fire and explosion

No special protective measures against fire required.

Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in the original sealed container.

Keep containers tightly closed in a dry, well-ventilated place.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Specific end use(s)

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SECTION 8: Exposure controls/personal protection

Control parameters

Exposure controls

Occupational exposure controls

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Protective and hygiene measures

Avoid contact with eyes and skin.

Wash hands before breaks and at the end of workday.

When using, do not eat, drink or smoke.

Remove and wash contaminated clothing before re-use.

Respiratory protection

No personal respiratory protective equipment normally required.

Breathing apparatus (particle filter) only if dust is formed.

Hand protection

Protective gloves resistant to chemicals made off natural-rubber latex, Minimum coat thickness 0.6 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Lapren 706> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Tightly fitting goggles

Eye wash bottle with pure water.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Tablet
Colour:	White
Odour:	Characteristic

pH-Value:	2,5 (1%)	Test method
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Changes in the physical state

Flash point:	n.a.
Lower explosion limits:	n.a.
Upper explosion limits:	n.a.
Ignition temperature:	n.a.

Oxidizing properties

n.a.

Vapour pressure: (at 20 °C)	n.a.
Water solubility: (at 20 °C)	Soluble
Partition coefficient:	n. d.

Other information

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Bulk density: approx. 800 g/L

SECTION 10: Stability and reactivity**Conditions to avoid**

Protect from moisture.

Incompatible materials

No materials to be especially mentioned.

Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**Information on toxicological effects****Acute toxicity**

Citric acid

LD50/oral/rat: 6730 mg/kg

Adipic acid

LD50/oral/rat: 11000 mg/kg

Malic acid

LD50/oral/rat: >3200 mg/kg

Irritation and corrosivity

Skin irritation: Irritant

Eye irritation: Irritant

Sensitizing effects

Irritant

Severe effects after repeated or prolonged exposure

STOT - Single exposure: Not classified.

STOT - Repeated exposure: Not classified.

Aspiration hazard: Not classified.

Carcinogenic/mutagenic/toxic effects for reproduction

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Teratogenicity: Not classified.

Empirical data on effects on humans

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

SECTION 12: Ecological information**Toxicity**

Citric acid :

LC50/Leuciscus idus/96 h: 440 - 706 mg/l

EC50/Daphnia magna: 85 mg/l

Adipic acid:

LC50/Pimephales promelas/96 h: 97 mg/l

Persistence and degradability

Product is biodegradable.

Bioaccumulative potential

No data available.

Other adverse effects

No data available.

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SECTION 13: Disposal considerations**Waste treatment methods****Advice on disposal**

Remove in accordance with local official regulations.

Contaminated packaging

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

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information**Canadian TDG****Proper shipping name**

Not regulated.

Other applicable information

Non hazardous material as defined by the transport regulations.

SECTION 15: Regulatory information**Canadian regulations**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL/NDL inventory status

All of the components are listed on the DSL Inventory.

WHMIS classification

WHMIS: D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

**Chemical Safety Assessment**

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Further Information**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)