

# Material safety datasheets



**Cleaner tablets for SelfCooking Center®**  
**Care-Tabs for SelfCooking Center®**



## MATERIAL SAFETY DATA SHEET

MSDS No: 0001/2    **Date issued:** 10 April 2012

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**Expiry:** 10 April 2016

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Clean Tab for RATIONAL SelfCooking Center

**Article No.:** 56.00.210

**Recommended Use:** Detergent-Tab for RATIONAL SelfCooking Center is used as a cleaning agent.

**Supplier:** Rational AG / Germany

**Australian representation / supplier / emergency contact:**

COMCATER MELBOURNE

156 Swann Drive

Derrimut, Vic 3030

Tel: (03) 8369 4600

Fax: (03) 9315 4699

### SECTION 2: HAZARDS IDENTIFICATION

Product is corrosive

Causes severe burns

Irritating to eyes

Irritating to skin

Irritating to the respiratory system

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Synonym	CAS Number	Concentration
Sodium Hydroxide	Caustic Soda	215-185-5	< 20%
Disodium metasilicate		6834-92-0	< 20%
Sodium Carbonate	Soda ash	497-19-8	<20%
Fatty alcohol alcoxylate			< 5%

This product contains no other hazardous ingredients, as defined by the *Approved Criteria for defining a Hazardous Substance*, and published by NOHSC

#### SECTION 4: FIRST AID MEASURES

**General Information:**

Remove contamination soaked clothing immediately.

If you feel unwell, seek medical advice.

**If product is inhaled:**

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

**Following contact with skin:**

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

**Following contact with eyes:**

Rinse immediately with plenty of water, including eyelids for at least 15 minutes.

Seek medical treatment from an eye specialist immediately.

**In case of accidental swallowing:**

Do not induce vomiting.

Seek medical advice immediately.

#### SECTION 5: FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Product does not burn; fire-extinguishing activity should be compatible with surroundings.

**Extinguishing media which must not be used for safety reasons:**

Do not use full water jet.

**Special exposure hazards arising from the substance(s) or preparation itself, combustion products, resulting gases:**

Fire may produce:

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

**Special protective equipment for fire-fighters:**

Wear self-contained breathing apparatus and protective suit.

**Additional information:**

Cool containers at risk with water spray jet.

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

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Avoid dust formation.

Use personal protective clothing.

**Environmental precautions:**

Do not discharge into drains/surface waters/groundwater.

**Methods for cleaning up/removal:**

Pick up mechanically, avoiding dust, and arrange disposal in suitable containers.

Flush away residues with water.

## **SECTION 7: HANDLING AND STORAGE**

**Handling:**

Avoid dust formation.

Ensure adequate ventilation at machinery locations and at places where dust can be generated.

Do not breathe dust.

Avoid contact with eyes, skin or mucous membranes.

**Storage:**

**Requirements for storage rooms and vessels**

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

Do not use zinc containers.

Do not use aluminium containers.

Do not use light metal drums.

**Advice on storage compatibility:**

Do not store with acids.

**Further information on storage conditions:**

Keep away from food, drink and animal feedstuffs.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational exposure controls:**

Ensure adequate ventilation at machinery locations and at places where dust can be generated.

**Protective and hygiene measures:**

Avoid formation of dust.

Do not inhale dust.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Remove and wash contaminated clothing before re-use

**Respiratory protection:**

No personal respiratory protective equipment is normally required.

Use breathing apparatus (particle filter) only if dust is formed.

**Hand protection:**

Protective gloves resistant to chemicals made of 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](http://www.kcl.de).

## Detergent -Tab for RATIONAL SelfCooking Center

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This recommendation refers exclusively to chemical compatibility and relevant lab tests conforming to EN 374, carried out under lab conditions.

Requirements can vary, depending on use. It is therefore necessary to adhere to the recommendations given by the manufacturer of the protective gloves.

### Eye protection:

Eye wash bottle with purified/distilled water.

Tightly fitting goggles.

**Skin protection:** Light protective clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tablet
Colour:	White
Odour:	Characteristic odour
pH:	12.7
Vapour pressure:	NA
Vapour density:	NA
Boiling point / range	NA
Freezing / melting point	NA
Solubility:	Soluble in water at 20°C
Density at 20°C:	1.1gm/cm <sup>3</sup>
Flashpoint:	ND
Upper and lower flammability limits	NA
Ignition temperature:	NA

## SECTION 10: STABILITY AND REACTIVITY

### Conditions to avoid:

Strong exothermic reactions with acids.

Reactions with light metals, with generation of hydrogen.

### Materials to avoid:

Acids.

### Hazardous decomposition products:

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

Hydrogen.

### Additional information:

No decomposition if stored and applied as directed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Empirical data on effects on humans:

Causes severe burns.

Irritates respiratory tract.

Danger of perforation of the gullet and of the stomach.

## SECTION 12: ECOLOGICAL INFORMATION

### Further information:

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

The product is an alkaline solution. Neutralization is normally necessary before waste water is discharged into sewage treatment plants.

Slight aquatic hazard.

Do not discharge product unmonitored into the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Advice on disposal:

Remove and dispose of in accordance with local official regulations.

### Waste disposal number of waste from residues/unused products

070699; WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified.

### Contaminated packaging:

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

Contaminated packaging should be emptied as much as possible and may be reused, following appropriate cleaning.

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

## SECTION 14: TRANSPORT INFORMATION

<b>UN Number:</b>	3262
<b>UN Proper shipping Name:</b>	CORROSIVE SOLID, BASIC, - INORGANIC, N.O.S. (sodium hydroxide, disodium metasilicate, mixture)
<b>UNDG Class and subsidiary Risk:</b>	8
<b>IMDG Packing Group:</b>	II
<b>Special precautions for user:</b>	-
<b>Hazchem Code:</b>	2X

## SECTION 15: REGULATORY INFORMATION

Substances contained in this product are listed in the AICS.

No TWA (ppm) has been published. The NOHS TWA ( $\text{mg/m}^3$ ) =  
2 (Peak limitation) for CAS RN 215-185-5.

## SECTION 16: OTHER INFORMATION

### **Other data:**

Data for items 4 to 8, as well as 10 to 12, in part do not refer to the use and regular application of the product (in this sense consult both information on use as well as on product), but to spillage of significant amounts as a result of accidents and other irregularities.

The information refers exclusively to safety requirements in relation to the product(s) and is based on the present level of our knowledge.

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 relevant product guarantee and liability regulations.

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

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

## MATERIAL SAFETY DATA SHEET

MSDS No: 0003/1    **Date issued**    10 April 2012  
**Expiry**    10 April 2016

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### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Care Tab for RATIONAL SelfCooking Center

**Article No.:** 56.00.562

**Recommended Use:** Care-Tab for Rational SelfCooking Center is used as a  
rinse aid and descaler.

**Supplier:** Rational AG

**Australian representation / supplier / emergency contact:**

COMCATER MELBOURNE

156 Swann Drive

Derrimut, Vic 3030

Tel: (03) 8369 4600

Fax: (03) 9315 4699

### SECTION 2: HAZARDS IDENTIFICATION

Product is irritant

Irritating to eyes

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Synonym	CAS Number	Concentration
Citric acid monohydrate		77-925-9	>40%
Malic Acid		617-48-1	>20%
Adipic Acid		124-04-9	< 5%

This product contains no other hazardous ingredients, as defined by the *Approved Criteria for defining a Hazardous Substance*, and published by NOHSC

### SECTION 4: FIRST AID MEASURES

**General Information:**

Remove contamination soaked clothing immediately.

If you feel unwell, seek medical advice.

**If product is inhaled:**

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

**Following contact with skin:**

Wash off immediately with plenty of water and soap as a precaution.

Consult a doctor if skin irritation persists.

**Following contact with eyes:**

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

Seek medical treatment from an eye specialist.

**In case of accidental swallowing:**

Do not induce vomiting

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.

Seek medical advice immediately

## SECTION 5: FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Product does not burn; fire-extinguishing activity should be compatible with surroundings.

**Extinguishing media which must not be used for safety reasons:**

Do not use full water jet

**Special exposure hazards arising from the substance(s) or preparation itself, combustion products, resulting gases**

Fire may produce:

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

**Special protective equipment for fire-fighters:**

Wear self-contained breathing apparatus and protective suit

**Additional information**

Cool containers at risk with water spray jet.

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Avoid dust formation.

Use personal protective clothing.

**Environmental precautions:**

Do not discharge into drains/surface waters/groundwater.

**Methods for cleaning up/removal:**

Pick up mechanically, avoiding dust, and arrange disposal in suitable containers.

Flush away residues with water.

## SECTION 7: HANDLING AND STORAGE

**Handling:**

Avoid dust formation.

Ensure adequate ventilation at machinery locations and at places where dust can be generated. Do not breathe dust.

Avoid contact with eyes, skin or mucous membranes.

**Storage:**

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

**Advice on storage compatibility**

Product is incompatible with bases

**Further information on storage conditions**

Keep away from food, drink and animal feedstuffs

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure controls:**

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

**Protective and hygiene measures:**

Avoid the formation of dust. Do not inhale dust.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

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.

Use breathing apparatus (particle filter) only if dust is formed.

**Hand protection:**

Protective gloves resistant to chemicals made of 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](http://www.kcl.de).

This recommendation refers exclusively to chemical compatibility and relevant lab tests conforming to EN 374, carried out under lab conditions.

Requirements can vary, depending on use. It is therefore necessary to adhere to the recommendations given by the manufacturer of the protective gloves.

**Eye protection:**

Eye wash bottle with purified/distilled water.

Tightly fitting goggles

**Skin protection:** Light protective clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tablet
Colour:	White
Odour:	Characteristic odour
pH:	2.5%
Vapour pressure:	NA
Vapour density:	NA
Boiling point / range	NA

Freezing / melting point	NA
Solubility:	Soluble in water at 20°C
Density:	ND
Flashpoint:	ND
Upper and lower flammability limits	NA
Ignition temperature:	NA

## SECTION 10: STABILITY AND REACTIVITY

### Conditions to avoid:

Exothermic reactions with bases.

### Materials to avoid:

Bases.

### Hazardous decomposition products:

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

### Additional information:

No decomposition if stored and applied as directed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Empirical data on effects on humans:

Irritates eyes.

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

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

May cause skin irritation with susceptible persons.

## SECTION 12: ECOLOGICAL INFORMATION

### Further information:

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

Slight aquatic hazard.

Do not discharge product unmonitored into the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Advice on disposal:

Remove and dispose of in accordance with local official regulations.

**Waste disposal and number of waste products from residues/unused products**  
070699 - WASTE FROM ORGANIC CHEMICAL PROCESSES; waste from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal.  
Contaminated packaging should be emptied as much as possible and may be reused, following appropriate cleaning.  
Packaging that cannot be cleaned should be disposed of like the product.

#### SECTION 14: TRANSPORT INFORMATION

**Marine Transport:** -

**Air Transport:** -

**Inland waterways transport:** -

**Further information:**

Not a hazardous material as defined by transport regulations.

#### SECTION 15: REGULATORY INFORMATION

Substances contained in this product are listed in the AICS

#### SECTION 16: OTHER INFORMATION

**Other data:**

Data for items 4 to 8, as well as 10 to 12, in part do not refer to the use and regular application of the product (in this sense consult both information on use as well as on product), but to spillage of significant amounts as a result of accidents and other irregularities.

The information refers exclusively to safety requirements in relation to the product(s) and is based on the present level of our knowledge.

Delivery specifications are contained in the corresponding product sheet.

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