Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Date of issue: 7/24/2019 Revision date: 7/24/2019 Version: 1.0
SDS No: 00625-0063

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1 Product identifier

Product name : Cleaner tab for all RATIONAL SelfCookingCenter® and CombiMaster® Plus models with automatic cleaning, Art.-Nr. 56.00.206, 56.00.210, 56.00.220

Product form : Mixture

1.2 Other means of identification

No additional information available

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

Recommended use : Cleaning agent

1.4 Supplier's details

RATIONAL AG
Siegfried-Meister-Straße 1
86899 Landsberg am Lech - Germany
T +49 8191 327-2563 - F +49 8191 327-72 2563
E-mail address of competent person responsible for the SDS: reinigung@rational-online.com

1.5. Emergency phone number

Emergency number : 0800 764 766 (NPC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

HSNO Approval Number : HSR002595

Hazardous nature : Classified as a dangerous good according to NZS 5433:2007,Classified as hazardous according to criteria in the Hazardous Substances (Classification) Regulations 2001.

8.2A Skin corrosion/irritation, Category 1A
8.3A Serious eye damage/eye irritation, Category 1

2.2. Label elements

GHS NZ labelling

Hazard pictograms (GHS NZ) :

GHS05

Signal word (GHS NZ) : Danger

Contains : Sodium hydroxide (>20 %) ; disodium metasilicate (10 - 20 %) ; Fatty alcohol alkoxylates (1 - <2,5 %)

Hazard statements (GHS NZ) : H314 - Causes severe skin burns and eye damage.

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

Prevention : P280 - Wear protective gloves, eye protection, face protection.

Response : P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor

Disposal : P501 - Dispose of contents/container to in accordance with local and national regulations

2.3. Other hazards not contributing to the classification

No additional information available

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SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Sodium hydroxide	(CAS-No.) 1310-73-2	>20	8.2A: Skin Corr. 1A, H314
disodium metasilicate	(CAS-No.) 6834-92-0	10 - 20	8.2B: Skin Corr. 1B, H314 6.1E (Respiratory tract irritant) : STOT SE 3, H335
Sodium carbonate	(CAS-No.) 497-19-8	10 - 20	6.4A: Eye Irrit. 2, H319
Pentasodium triphosphate	(CAS-No.) 7758-29-4	10 - 20	Not classified
Fatty alcohol alkoxylates	(CAS-No.) 111190-40-0	1 -<2,5	8.3A: Eye Dam. 1, H318 9.1A: Aquatic Acute 1, H400

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire :Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

EAC code : 2X - 2X

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Information on mixed storage : Acids.

Packaging materials : Don't use packaging made out of aluminium, zinc or tin.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium hydroxide (1310-73-2)	
New Zealand - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL - Ceilings (mg/m³)	2 mg/m³
Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 9th Edition

Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Natural rubber	6 (> 480 minutes)	0,6		EN ISO 374

Eye protection : tightly fitting safety goggles. Eyewash bottle with clean water (EN 15154)

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state : Solid

Appearance : No data available

Colour : white

Odour : characteristic

Odour threshold	:	No data available
pH	:	12.7 pH solution : 1 %
Evaporation rate	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	Density : 1100 g/l @ 20°C Relative density : Not applicable
Solubility	:	Soluble in water.
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Explosive limits	:	Not applicable
Minimum ignition energy	:	No data available
VOC content	:	< 3 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Exothermic reaction on contact with : Acids.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Acids. metals.

10.6. Hazardous decomposition products

Hydrogen. irritating gases. corrosive gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

disodium metasilicate (6834-92-0)	
LD50 oral	600 mg/kg

Pentasodium triphosphate (7758-29-4)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 4640 mg/kg

Skin corrosion/irritation	:	Causes severe skin burns and eye damage. pH: 12.7
Serious eye damage/irritation	:	Causes serious eye damage.

Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

Cleaner-tab	
Viscosity, kinematic	

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	Before neutralisation, the product may represent a danger to aquatic organisms.
Acute aquatic toxicity	:	Not classified
Chronic aquatic toxicity	:	Not classified
Soil toxicity	:	Not classified
Terrestrial vertebrate toxicity	:	Not classified
Terrestrial invertebrate toxicity	:	Not classified

Sodium carbonate (497-19-8)	
BCF fish 1	No bioaccumulation
LD50 dermal mouse	2210 mg/kg

Pentasodium triphosphate (7758-29-4)	
LC50 fish 1	1650 mg/l
EC50 Daphnia 1	1089 mg/l
LD50 dermal rabbit	> 4640 mg/kg
LD50 oral rat	> 2000 mg/kg

12.2. Persistence and degradability

Cleaner-tab	
Persistence and degradability	No additional information available

12.3. Bioaccumulative potential

Cleaner-tab	
Bioaccumulative potential	No additional information available

Sodium carbonate (497-19-8)	
BCF fish 1	See section 12.1 on ecotoxicology

12.4. Mobility in soil

Cleaner-tab	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone	:	Not classified
Other adverse effects	:	No additional information available

SECTION 13: Disposal considerations

Waste treatment methods	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations	:	Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Recycling is preferred to disposal or incineration. Empty remaining contents. Do not re-use empty containers without proper cleaning or reconditioning. Dirty containers cannot be handled as normal waste.

SECTION 14: Transport information

IMDG	IATA	UNRTDG
14.1. UN number		
3262	3262	3262
14.2. Proper Shipping Name		
CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide ; disodium metasilicate)	Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide ; disodium metasilicate)	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate ; Sodium hydroxide)
14.3. Transport hazard class(es)		
8	8	8
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

UN RTDG

Special provisions (UN RTDG)	:	274
Limited quantities (UN RTDG)	:	1 kg
Excepted quantities (UN RTDG)	:	E2
Packing instruction (UN RTDG)	:	P002, IBC08
Special packing provisions (UN RTDG)	:	B2, B4
Portable tank and bulk container special instructions (UN RTDG)	:	T3
Portable tank and bulk container special provisions (UN RTDG)	:	TP33

IMDG

Special provisions (IMDG)	:	274
Limited quantities (IMDG)	:	1 kg
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P002
EmS-No. (Fire)	:	F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	:	S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Properties and observations (IMDG)	:	Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.
MFAG-No	:	154

IATA

PCA Excepted quantities (IATA)	:	E2

PCA Limited quantities (IATA)	: Y844
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 859
PCA max net quantity (IATA)	: 15kg
CAO packing instructions (IATA)	: 863
CAO max net quantity (IATA)	: 50kg
Special provisions (IATA)	: A3
ERG code (IATA)	: 8L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

14.8. Hazchem or Emergency Action Code

EAC code : 2X.

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR002595

disodium metasilicate (6834-92-0)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003511

Sodium carbonate (497-19-8)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003265

Pentasodium triphosphate (7758-29-4)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003416

Sodium hydroxide (1310-73-2)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR001547

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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Abbreviations and acronyms:	
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

DOT	Department of Transport
TDG	Transportation of Dangerous Goods
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
IARC	International Agency for Research on Cancer
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
CAS	CAS (Chemical Abstracts Service) number
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
ADG	Transport of Australian Dangerous Goods

Full text of H-statements:

6.1E (Respiratory tract irritant) : STOT SE 3	6.1E (Respiratory tract irritant) : Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
6.4A: Eye Irrit. 2	6.4A: Serious eye damage/eye irritation, Category 2
8.2A: Skin Corr. 1A	8.2A: Skin corrosion/irritation, Category 1A
8.2B: Skin Corr. 1B	8.2B: Skin corrosion/irritation, Category 1B
8.3A: Eye Dam. 1	8.3A: Serious eye damage/eye irritation, Category 1
9.1A: Aquatic Acute 1	9.1A: Hazardous to the aquatic environment — Acute Hazard, Category 1
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.