

Chemical Information



Product		Individual			
Article Code	Description	Height(CM)	Width(CM)	Depth(CM)	Gross Weight (KG)
56.00.210	Cleaner Tabs	28	29	29	6.722
56.00.562	Care Tabs	20	23	39	6.760
56.01.535	Active Green Cleaner Tabs	20	23	39	5.840
56.00.211	Rinse Aid Tabs	16.5	19	30	3.295

Product		Pallet			
Article Code	Description	Height(CM)	Width(CM)	Depth(CM)	Gross Weight (KG)
56.00.210	Cleaner Tabs	106	80	120	259
56.00.562	Care Tabs	124	80	120	364
56.01.535	Active Green Cleaner Tabs	124	80	120	364
56.00.211	Rinse Aid Tabs	124	80	120	364

Product		Misc			
Article Code	Description	Pallet Size	MOQ	Tub Quantity	Country of Origin
56.00.210	Cleaner Tabs	36	1 Pallet	100	DE
56.00.562	Care Tabs	50	1 Pallet	150	DE
56.01.535	Active Green Cleaner Tabs	50	1 Pallet	150	DE
56.00.211	Rinse Aid Tabs	96	1 Pallet	50	DE

Product		Codes		
Article Code	Description	Commodity Code	EU CN Code	Barcode
56.00.210	Cleaner Tabs	34022090	3402209000	4040337562105
56.00.562	Care Tabs	34022090	3402209000	4040337565625
56.01.535	Active Green Cleaner Tabs	34022090	3402209000	4040337565359
56.00.211	Rinse Aid Tabs	34022090	3402209000	4040337562112

Contents	Page
56.00.210 MSDS	2
56.00.562 MSDS	9
56.00.211 MSDS	15
56.01.535 MSDS	21
EU 2019/1148 Statement	29

SAFETY DATA SHEET

According regulation (EC) No. 1907/2006

Page: 1

Compilation date: 18.02.2011

Revision date: 08.10.2015

Revision No: 6.1

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

1.1. Product identifier

Product name: Cleaner Tab for RATIONAL SelfCookingCenter®, Art.-No. 56.00.206, 56.00.210, 56.00.220

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

Use of substance / mixture: Cleaner for professional users

1.3. Details of the supplier of the safety data sheet

Company name: Rational AG
Iglinger Strasse 62
D - 86899 Landsberg
Germany
Tel: +49 (0)8191 - 3270
Fax: +49 (0)8191 - 21735
Email: reinigung@rational-online.de



1.4. Emergency telephone number

Emergency tel: +49 (0)89 - 19240
(24 hours Giftnotruf München)

NPIS: 0870 600 62666
National poison information service (UK)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A: H314

Most important adverse effects: Causes severe skin burns and eye damage.

*2.2. Label elements

Label elements under CLP:

Hazard statements: H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Hazard components for labelling: sodium hydroxide, disodium metasilicate, fatty alcohol ethoxylate

Precautionary statements: P102: Keep out of reach of children.

P101: If medical advice is needed, have product container or label at hand.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

[cont...]

SAFETY DATA SHEET

Cleaner Tab for RATIONAL SelfCookingCenter®

Page: 2

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P310: Immediately call a POISON CENTER or doctor.

P501: Dispose of contents to problem waste.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

*3.2. Mixtures

Hazardous ingredients:

SODIUM HYDROXIDE - REACH registered number(s): 01-2119457892-27-0000

EINECS	CAS	CLP Classification	Percent
215-185-5	1310-73-2	Skin Corr. 1A: H314	>20%

DISODIUM METASILICATE - REACH registered number(s): 01-2119449811-37-0000

EINECS	CAS	CLP Classification	Percent
229-912-9	6834-92-0	Skin Corr. 1B: H314; STOT SE 3: H335	10-<<20%

SODIUM CARBONATE - REACH registered number(s): 01-2119485498-19-0000

EINECS	CAS	CLP Classification	Percent
207-838-8	497-19-8	Eye Irrit. 2: H319	10-20%

FATTY ALCOHOL ALKOXYLATE - REACH registered number(s): 02-2119548491-37-0000

EINECS	CAS	CLP Classification	Percent
-	111190-40-0	Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 2: H411	1-<2.5%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Do not induce vomiting. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours.

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

Skin contact: Irritation or pain may occur at the site of contact. Severe burns may occur.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.

[cont...]

SAFETY DATA SHEET

Cleaner Tab for RATIONAL SelfCookingCenter®

Page: 3

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Wash the spillage site with large amounts of water. Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Storage class: 8B (Non-combustible corrosive substances)

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

[cont...]

SAFETY DATA SHEET

Cleaner Tab for RATIONAL SelfCookingCenter®

Page: 4

Hazardous ingredients:

SODIUM HYDROXIDE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m ³	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Gloves (alkali-resistant). Breakthrough time of the glove material < 1 hour.
Suitable material: NR (natural rubber), CR (polychloroprene) or NBR (nitrile rubber).

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Not applicable.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid

Colour: White

Odour: Characteristic odour

Evaporation rate: Not applicable.

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: Not applicable.

Boiling point/range°C: Not applicable.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

upper: No data available.

Flash point°C: Not applicable.

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: No data available.

Vapour pressure: Not applicable.

Relative density: 1100 g/l

pH: 12.7 (1%ig)

VOC g/l: <3%

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

[cont...]

SAFETY DATA SHEET

Cleaner Tab for RATIONAL SelfCookingCenter®

Page: 5

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Humidity.

10.5. Incompatible materials

Materials to avoid: Acids. Metals.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes. Contact with acids liberates toxic gas.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

SODIUM HYDROXIDE

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

DISODIUM METASILICATE

ORL	MUS	LD50	770	mg/kg
ORL	RAT	LD50	1153	mg/kg

SODIUM CARBONATE

ORL	MUS	LD50	6600	mg/kg
ORL	RAT	LD50	4090	mg/kg
SCU	MUS	LD50	2210	mg/kg

FATTY ALCOHOL ALKOXYLATE

ORAL	RAT	LD50	3180	mg/kg
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Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: Irritation or pain may occur at the site of contact. Severe burns may occur.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.

[cont...]

SAFETY DATA SHEET

Cleaner Tab for RATIONAL SelfCookingCenter®

Page: 6

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

SODIUM HYDROXIDE

Daphnia magna	24H EC50	76	mg/l
Gambusia affinis	96H LC50	125	mg/l

SODIUM CARBONATE

Frischwasser Invertebraten	48H EC50	200-227	mg/l
Lepomis macrochirus	96H LC50	300	mg/l

FATTY ALCOHOL ALKOXYLATE

Aquatische Invertebraten	48H EC50	0.1-1	mg/l
Leuciscus idus	96H LC50	0.1-1	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 20 01 29

Disposal of packaging: May be reused following decontamination.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3262

[cont...]

SAFETY DATA SHEET

Cleaner Tab for RATIONAL SelfCookingCenter®

Page: 7

14.2. UN proper shipping name

Shipping name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
(SODIUM HYDROXIDE; DISODIUM METASILICATE; Limited Quantity: 1kg)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006.

* indicates text in the SDS which has changed since the last revision.

Data references: Safety data sheets from our raw material suppliers

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

Calculation method

Phrases used in s.2 and 3: 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.

H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET

According regulation (EC) No. 1907/2006

Page: 1

Compilation date: 04.07.2011

Revision date: 14.02.2017

Revision No: 6.2

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

1.1. Product identifier

Product name: CARE-TAB for RATIONAL SelfCookingCenter®, Art.-No. 56.00.560, 56.00.562

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

Use of substance / mixture: Care-Tab for SelfCooking Center for professional users

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

Company name: Rational AG
Iglinger Strasse 62
86899 Landsberg am Lech
Germany
Tel: +49 8191 327-2365
Fax: +49 8191 327-72 2365
Email: reinigung@rational-online.com



1.4. Emergency telephone number

Emergency tel: +49 89 - 19 24 0

(24 hours Giftnotruf München "Klinikum rechts der Isar")

NPIS: +44 870 600 62666

National poison information service (UK)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319; Skin Irrit. 2: H315

Most important adverse effects: Causes skin irritation. Causes serious eye irritation.

*2.2. Label elements

Label elements under CLP:

Hazard statements: H315: Causes skin irritation.

H319: Causes serious eye irritation.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



Precautionary statements: P102: Keep out of reach of children.

P101: If medical advice is needed, have product container or label at hand.

P280: Wear protective gloves.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

[cont...]

SAFETY DATA SHEET

CARE-TAB for RATIONAL SelfCookingCenter®

Page: 2

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

*3.2. Mixtures

Hazardous ingredients:

CITRIC ACID - REACH registered number(s): 01-2119457026-42-0000

EINECS	CAS	CLP Classification	Percent
201-069-1	77-92-9	Eye Irrit. 2: H319	>20%

MALIC ACID - REACH registered number(s): 02-2119752657-27-0000

EINECS	CAS	CLP Classification	Percent
210-514-9	617-48-1	Eye Irrit. 2: H319; Skin Irrit. 2: H315	>20%

ADIPIIC ACID - REACH registered number(s): 01-2119457561-38-0000

EINECS	CAS	CLP Classification	Percent
204-673-3	124-04-9	Eye Irrit. 2: H319	1-5%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.

Inhalation: Not applicable.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and pain. The eyes may water profusely. The vision may become blurred.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

[cont...]

SAFETY DATA SHEET

CARE-TAB for RATIONAL SelfCookingCenter®

Page: 3

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.

5.3. Advice for fire-fighters

Advice for fire-fighters: Not applicable.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Wash the spillage site with large amounts of water. Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

*7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Avoid contact with water or humidity.
Storage class: 13 (Non-combustible solids)

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves. Suitable material: NR (natural rubber), CR (polychloroprene) or NBR (nitrile rubber), category III according to EN 374.

Eye protection: Safety glasses.

Skin protection: Not applicable.

Environmental: No special requirement.

Section 9: Physical and chemical properties

[cont...]

SAFETY DATA SHEET

CARE-TAB for RATIONAL SelfCookingCenter®

Page: 4

9.1. Information on basic physical and chemical properties

State: Solid	
Colour: White	
Odour: Characteristic odour	
Evaporation rate: Not applicable.	
Oxidising: Non-oxidising (by EC criteria)	
Solubility in water: Soluble	
Viscosity: No data available.	
Boiling point/range°C: Not applicable.	Melting point/range°C: Not applicable.
Flammability limits %: lower: Not applicable.	upper: Not applicable.
Flash point°C: Not applicable.	Part.coeff. n-octanol/water: No data available.
Autoflammability°C: Not applicable.	Vapour pressure: Not applicable.
Relative density: 800 g/l	pH: 2.5 (1%ig)
VOC g/l: <3%	

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Humidity.

10.5. Incompatible materials

Materials to avoid: Not applicable.

10.6. Hazardous decomposition products

Haz. decomp. products: Not applicable.

Section 11: Toxicological information

11.1. Information on toxicological effects

[cont...]

SAFETY DATA SHEET

CARE-TAB for RATIONAL SelfCookingCenter®

Page: 5

Hazardous ingredients:

CITRIC ACID

ORL	RAT	LD50	5790	mg/kg
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MALIC ACID

ORL	RAT	LD50	3200	mg/kg
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ADIPIIC ACID

ORL	RAT	LD50	5560	mg/kg
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Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and pain. The eyes may water profusely. The vision may become blurred.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

CITRIC ACID

Daphnia magna	72H EC50	~120	mg/l
Leuciscus idus	96H LC50	440-706	mg/l

ADIPIIC ACID

Daphnia magna	48H LC50	46	mg/l
Pimephales promelas	96H LC50	88-97	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Soluble in water.

[cont...]

SAFETY DATA SHEET

CARE-TAB for RATIONAL SelfCookingCenter®

Page: 6

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: May be reused following decontamination.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006.

* indicates text in the SDS which has changed since the last revision.

Data references: Safety data sheets from our raw material suppliers

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

Calculation method

Phrases used in s.2 and 3: H315: Causes skin irritation.

H319: Causes serious eye irritation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET

According regulation (EC) No. 1907/2006

Page: 1

Compilation date: 18.02.2011

Revision date: 08.10.2015

Revision No: 6.1

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

1.1. Product identifier

Product name: Rinsing-Tab for RATIONAL SelfCookingCenter®, Art.-No. 56.00.208, 56.00.211

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

Use of substance / mixture: Rinsing agent for SelfCooking Center for professional users

1.3. Details of the supplier of the safety data sheet

Company name: Rational AG

Iglinger Strasse 62

D - 86899 Landsberg

Germany

Tel: +49 (0)8191 - 3270

Fax: +49 (0)8191 - 21735

Email: reinigung@rational-online.de



1.4. Emergency telephone number

Emergency tel: +49 (0)89 - 19240

(24 hours Giftnotruf München)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319

Most important adverse effects: Causes serious eye irritation.

*2.2. Label elements

Label elements under CLP:

Hazard statements: H319: Causes serious eye irritation.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



Precautionary statements: P102: Keep out of reach of children.

P101: If medical advice is needed, have product container or label at hand.

P280: Wear eye protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical advice.

[cont...]

SAFETY DATA SHEET

Rinsing-Tab for RATIONAL SelfCookingCenter®

Page: 2

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

*3.2. Mixtures

Hazardous ingredients:

CITRIC ACID - REACH registered number(s): 01-2119457026-42-0000

EINECS	CAS	CLP Classification	Percent
201-069-1	77-92-9	Eye Irrit. 2: H319	>20%

FATTY ALCOHOL ALCOXYLATE - REACH registered number(s): 02-2119548508-30-0000

-	-	Skin Irrit. 2: H315	1-5%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Not applicable.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.

5.3. Advice for fire-fighters

Advice for fire-fighters: Not applicable.

[cont...]

SAFETY DATA SHEET

Rinsing-Tab for RATIONAL SelfCookingCenter®

Page: 3

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Wash the spillage site with large amounts of water. Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Not applicable.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Not applicable.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid

Colour: White

Odour: Characteristic odour

Evaporation rate: Not applicable.

Oxidising: Non-oxidising (by EC criteria)

[cont...]

SAFETY DATA SHEET

Rinsing-Tab for RATIONAL SelfCookingCenter®

Page: 4

Solubility in water: Soluble

Viscosity: Not applicable.

Boiling point/range°C: Not applicable.

Flammability limits %: lower: Not applicable.

Flash point°C: Not applicable.

Autoflammability°C: No data available.

Relative density: 950 g/l

VOC g/l: <3%

Melting point/range°C: No data available.

upper: Not applicable.

Part.coeff. n-octanol/water: No data available.

Vapour pressure: Not applicable.

pH: 3 (1%ig)

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Humidity.

10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

CITRIC ACID

ORL	RAT	LD50	5790	mg/kg
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FATTY ALCOHOL ALCOXYLATE

ORAL	RAT	LD50	>2000	mg/kg
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Toxicity values: No data available.

[cont...]

SAFETY DATA SHEET

Rinsing-Tab for RATIONAL SelfCookingCenter®

Page: 5

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

CITRIC ACID

Daphnia magna	72H EC50	~120	mg/l
Leuciscus idus	96H LC50	440-706	mg/l

FATTY ALCOHOL ALCOXYLATE

Leuciscus idus	96H LC50	1-10	mg/l
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12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 20 01 29

Disposal of packaging: May be reused following decontamination.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

SAFETY DATA SHEET

Rinsing-Tab for RATIONAL SelfCookingCenter®

Page: 6

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006.

* indicates text in the SDS which has changed since the last revision.

Data references: Safety data sheets from our raw material suppliers

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

Calculation method

Phrases used in s.2 and 3: H315: Causes skin irritation.

H319: Causes serious eye irritation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)
with its amendment Regulation (EU) 2015/830

Page: 1/8

Compilation date: 15.06.2018

Revision date: 25.10.2019

Revision No: 3.1

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

1.1. Product identifier

*Product name: Cleaner Tab Active Green; Art.-No. 56.01.535

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

Use of substance / mixture: Cleaner for professional users

1.3. Details of the supplier of the safety data sheet

Company name: RATIONAL AG
Siegfried-Meister-Straße 1
86899 Landsberg am Lech
Germany

Tel: +49 8191 327-2563

Fax: +49 8191 327-72 2563

Email: reinigung@rational-online.com



1.4. Emergency telephone number

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

NPIS: 0870 600 62666
National poison information service (UK)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A: H314; Met. Corr. 1: H290

Most important adverse effects: Causes severe skin burns and eye damage. May be corrosive to metals.

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

H290: May be corrosive to metals.

Hazard pictograms: GHS05: Corrosion



Signal words: Danger

Hazard components for labelling: sodium hydroxide, disodium metasilicate

Precautionary statements: P101: If medical advice is needed, have product container or label at hand.

P280: Wear protective gloves/eye protection/face protection.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

SAFETY DATA SHEET

REINIGER-TAB | CLEANER TAB ACTIVE GREEN

Page: 2/8

Rinse skin with water [or shower].

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.

P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

*3.2. Mixtures

Hazardous ingredients:

SODIUM HYDROXIDE - REACH registered number(s): 01-2119457892-27-0000

EINECS	CAS	SCL	CLP Classification	Percent
215-185-5	1310-73-2	-	Skin Corr. 1A: H314	50-80%

SODIUM CARBONATE - REACH registered number(s): 01-2119485498-19-0000

207-838-8	497-19-8	-	Eye Irrit. 2: H319	5-10%
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DISODIUM METASILICATE - REACH registered number(s): 01-2119449811-37-0000

229-912-9	6834-92-0	-	Skin Corr. 1B: H314; STOT SE 3: H335	1-10%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Do not induce vomiting. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours.

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

Skin contact: Irritation or pain may occur at the site of contact.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.

SAFETY DATA SHEET

REINIGER-TAB | CLEANER TAB ACTIVE GREEN

Page: 3/8

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

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Wash the spillage site with large amounts of water. Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Avoid contact with water or humidity. Storage class: 8B (Non-combustible corrosive substances)

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): PC35: Washing and cleaning products (including solvent based products).

Section 8: Exposure controls/personal protection

SAFETY DATA SHEET

REINIGER-TAB | CLEANER TAB ACTIVE GREEN

Page: 4/8

8.1. Control parameters

Hazardous ingredients:

SODIUM HYDROXIDE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m ³	-	-

DNEL/PNEC Values

***Hazardous ingredients:**

SODIUM HYDROXIDE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	1,0 mg/m ³	Workers	Local
DNEL	Dermal	2%	Workers	Local

SODIUM CARBONATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	10 mg/m ³	Workers	-

DISODIUM METASILICATE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	1,49 mg/kg	Workers	Systemic
DNEL	Inhalation	6,22 mg/m ³	Workers	Systemic
DNEL	Dermal	0,74 mg/kg	Population	Systemic
DNEL	Inhalation	1,55 mg/m ³	Population	Systemic
DNEL	Oral	0,74 mg/kg	Population	Systemic
PNEC	Fresh water	7,5 mg/l	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Gloves (alkali-resistant). Breakthrough time of the glove material < 1 hour. Wear chemical-resistant disposable protective gloves according to EN 374.

Eye protection: Tightly fitting safety goggles. according to EN 166:2001.

Skin protection: Not applicable.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid

SAFETY DATA SHEET

REINIGER-TAB | CLEANER TAB ACTIVE GREEN

Page: 5/8

Colour: White

Odour: Odourless

Evaporation rate: Not applicable.

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: Not applicable.

Boiling point/range°C: Not applicable.

Melting point/range°C: No data available.

Flammability limits %: lower: Not applicable.

upper: Not applicable.

Flash point°C: Not applicable.

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: Not applicable.

Vapour pressure: Not applicable.

Relative density: No data available.

pH: 12.5 (1%)

VOC g/l: <3%

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Humidity.

10.5. Incompatible materials

Materials to avoid: Acids. Metals.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

***Hazardous ingredients:**

SAFETY DATA SHEET

REINIGER-TAB | CLEANER TAB ACTIVE GREEN

Page: 6/8

SODIUM HYDROXIDE

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

SODIUM CARBONATE

ORL	MUS	LD50	6600	mg/kg
ORL	RAT	LD50	4090	mg/kg
SCU	MUS	LD50	2210	mg/kg

DISODIUM METASILICATE

ORL	MUS	LD50	770	mg/kg
ORL	RAT	LD50	1153	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: Irritation or pain may occur at the site of contact.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

Inhalation: Not applicable.

Delayed / immediate effects: Immediate effects can be expected after long-term exposure.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

***Hazardous ingredients:**

SODIUM HYDROXIDE

Daphnia magna	24H EC50	76	mg/l
Gambusia affinis	96H LC50	125	mg/l

SODIUM CARBONATE

Freshwater Invertebrates	48H EC50	200-227	mg/l
Lepomis macrochirus	96H LC50	300	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable. according to OECD 301 B.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

SAFETY DATA SHEET

REINIGER-TAB | CLEANER TAB ACTIVE GREEN

Page: 7/8

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: Not applicable.

Waste code number: 20 01 29

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1823

14.2. UN proper shipping name

Shipping name: SODIUM HYDROXIDE, SOLID
Limited Quantity (LQ): 1kg

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

SAFETY DATA SHEET

REINIGER-TAB | CLEANER TAB ACTIVE GREEN

Page: 8/8

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

Specific regulations: Ingredients according to Regulation (EC) No 648/2004: <5% polycarboxylates, non-ionic surfactants.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Data references: Safety data sheets from our raw material suppliers

Department issuing MSDS: Product Development Department

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

Calculation method

Phrases used in s.2 and s.3: H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

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.

RATIONAL AG Siegfried-Meister-Str. 1 \ 86899 Landsberg am Lech \ Deutschland

To whom it may concern

Contact:

Steffen Hanselka
Tel. +49 8191 327-2664
s.hanselka@rational-online.com

22.01.2021

RATIONAL Cleaning products EU 2019/1148

Dear Sir or Madame,

Regulation (EU) 2019/1148 defines the marketing and use of explosives precursors within the EU. This regulation imposes on economic operators (manufacturers, distributors, professional users, etc...), among other things, stricter documentation and control regulations for the substances listed in Annexes I and II.

None of the cleaning products manufactured for RATIONAL contain ingredients affected by Regulation (EU) 2019/1148.

Best Regards,

Steffen Hanselka
Director Operational Product Management
RATIONAL AG