

Cleaner Tab NaOH-free

Safety Data Sheet

According to SS 586 Part 3 (2022)

Issue date: 19/2/2026 Revision date: 19/2/2026 Version: 1.00



SECTION 1: Identification

1.1. Product identifier

Trade name : Cleaner Tab NaOH-free
Product form : Mixture

1.2. Other means of identification

Other means of identification : Cleaner tab
Article number : 56.02.317, 56.02.317U

1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions
Recommended use : Cleaner tab for all RATIONAL SelfCookingCenter® and CombiMaster® Plus models with automatic cleaning for professional users.
Restrictions on use : All other uses not recommended above

1.4. Supplier's details

Manufacturer/Supplier

RATIONAL AG
Siegfried-Meister-Straße 1 86899 Landsberg am Lech Germany
T +49 8191 327 387 - F +49 8191 327 231
reinigung@rational-online.com - www.rational-online.com

Email competent person

sds@kft.de

Importer

RATIONAL Cooking Systems Pte Ltd
#02-15/17 German Centre 25 International Business Park Singapore
609916 Singapore
T +65 6809 5850

1.5. Emergency phone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incidents
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Physical hazards : Corrosive to metals, Category 1
Health hazards : Skin corrosion/irritation, Category 1B
Serious eye damage/eye irritation, Category 1
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

2.2. GHS label elements, including precautionary statements

Hazard pictograms (GHS SG)



Signal word (GHS SG)

: Danger

Hazard statements (GHS SG)

H290 : May be corrosive to metals
H314 : Causes severe skin burns and eye damage
H335 : May cause respiratory irritation

Precautionary statements

Prevention

P280 : Wear protective gloves, eye protection.

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Response

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. Rinse skin with water/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, a doctor.

Disposal

P501 : Dispose of contents and container to a hazardous or special waste collection point.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Synonyms	Concentration (%)	Formula	Product identifier	GHS SG classification
disodium metasilicate	-	≥ 25 – < 50	H ₂ O ₃ Si ₂ Na	CAS-No.: 6834-92-0 EC-No.: 229-912-9 EC Index-No.: 014-010-00-8	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
sodium carbonate	-	≥ 25 – < 50	CNa ₂ O ₃	CAS-No.: 497-19-8 EC-No.: 207-838-8 EC Index-No.: 011-005-00-2	Eye Irrit. 2, H319
sodium p-cumenesulphonate	-	≥ 5 – < 10	C ₉ H ₁₂ O ₃ S.Na	CAS-No.: 15763-76-5 EC-No.: 239-854-6	Eye Irrit. 2, H319
Fatty alcohol alkoxyate	-	≥ 1 – < 2.5	-	CAS-No.: 111190-40-0	Eye Dam. 1, H318 Aquatic Acute 1, H400

SECTION 4: First-aid measures

4.1. Description of necessary first aid measures

First-aid measures general	: Call a physician immediately.
Inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
Skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
Self protection of the first-aiders	: First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

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4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Carbon dioxide. Water spray. Dry powder. Foam.
Unsuitable extinguishing media : Strong water jet.

5.2. Specific hazards arising from the chemical

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

5.3. Special protective actions for fire fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

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

No additional information available

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Other information : Disposal must be done according to official regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. 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 in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Incompatible materials : Metals.
Storage temperature : 10 – 40 °C

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Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters/Occupational exposure limits

No additional information available

8.2. Appropriate engineering control measures

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

8.3. Personal protection – individual protection measures, such as personal protective equipment (PPE)

Materials for protective clothing : Not required for normal conditions of use

Hand protection : In case of contact with the skin : Chemically resistant protective gloves. ISO 374-1. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber	6 (> 480 minutes)	0,35	No additional information available	EN ISO 374-1

Eye protection : Not required for normal conditions of use. In case of dust production: protective goggles. ISO 16321-1. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Wear closed safety glasses

Skin and body protection : Not required for normal conditions of use

Respiratory protection : Not required for normal conditions of use. Dust production: dust mask with filter type P2. EN 143. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : tablet.

Colour : white

Odour : characteristic

Odour threshold : Not available

pH : 12.3

pH solution concentration : 1 % Aqueous solution

Melting point : Not available

Freezing point : Not applicable

Initial boiling point and boiling range : Not available

Flash point : Not applicable

Evaporation rate : Relative evaporation rate (butylacetate=1): Not applicable

Flammability : Not available

Explosive limits : Explosive properties: Product is not explosive.
Oxidising properties: Non oxidizing.

Vapour pressure : Not applicable

Relative vapour density at 20°C : Not applicable

Density : Not available

Relative density : Not available

Solubility : Water: completely soluble

Partition coefficient n-octanol/water (Log Kow) : Not available

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Partition coefficient n-octanol/water (Log Pow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle specific surface area	: Not available

9.2. Other information

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

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Protect from moisture. Keep out of frost. Protect from heat and direct sunlight.

10.5. Incompatible materials

metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Acute toxicity

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion or irritation	: Causes severe skin burns. pH: 12.3
Serious eye damage or irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause respiratory irritation.

disodium metasilicate (6834-92-0)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

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disodium metasilicate (6834-92-0)	
NOAEL (oral, rat, 90 days)	227 – 237 mg/kg bodyweight/day (OECD 408 method)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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Viscosity, kinematic	Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met).
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

disodium metasilicate	
ErC50 algae	207 mg/l (72 h; <i>Desmodesmus subspicatus</i> ; (OECD 201 method))
Fatty alcohol alkoxylate (111190-40-0)	
LC50 - Fish [1]	< 1 mg/l (<i>Leuciscus idus</i> (golden orfe), 96h, DIN 38412)
EC50 - Crustacea [1]	< 1 mg/l (<i>Daphnia magna</i> (Water flea), 48h, Directive EEC 79/831)
ErC50 algae	< 1 mg/l (<i>Scenedesmus subspicatus</i> , 72h, (OECD 201 method))
NOEC chronic crustacea	> 0.1 – < 1 mg/l (<i>Daphnia magna</i> (Water flea), 21d, (OECD 202 method))

12.2. Persistence and degradability

Cleaner Tab NaOH-free	
Persistence and degradability	Contained surfactants are biodegradable.
disodium metasilicate (6834-92-0)	
Persistence and degradability	Not applicable for inorganic substances.
sodium carbonate (497-19-8)	
Persistence and degradability	Not applicable for inorganic substances.
sodium p-cumenesulphonate (15763-76-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	99.8 % (OECD 301B method)
Fatty alcohol alkoxylate (111190-40-0)	
Biodegradation	> 60 %

12.3. Bioaccumulative potential

Cleaner Tab NaOH-free	
Bioaccumulative potential	No additional information available
disodium metasilicate (6834-92-0)	
Bioaccumulative potential	Bioaccumulation unlikely.

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sodium carbonate (497-19-8)	
Bioaccumulative potential	Not applicable for inorganic substances.

12.4. Mobility in soil

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Mobility in soil	No additional information available

disodium metasilicate (6834-92-0)	
Ecology - soil	Expected to be highly mobile in soil.

sodium carbonate (497-19-8)	
Ecology - soil	Expected to be highly mobile in soil.

12.5. Other adverse effects

Ozone	: Not classified (Based on available data, the classification criteria are not met)
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

Waste treatment methods	: Disposal must be done according to official regulations. Do not discharge into drains or the environment. Do not dispose of with domestic waste.
Product/Packaging disposal recommendations	: Recycle or dispose of in compliance with current legislation.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
3262	3262	3262
14.2. UN proper shipping name		
CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate)	Corrosive solid, basic, inorganic, n.o.s. (disodium metasilicate)	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate)
Transport document description		
UN 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate), 8, III	UN 3262 Corrosive solid, basic, inorganic, n.o.s. (disodium metasilicate), 8, III	UN 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate), 8, III
14.3. Transport hazard class		
8	8	8
		
14.4. Packing group, if applicable		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No

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No supplementary information available

14.6. Special precautions for users

UN RTDG

Special provisions (UN RTDG) : 223, 274
Limited quantities (UN RTDG) : 5 kg
Excepted quantities (UN RTDG) : E1
Packing instruction (UN RTDG) : P002, IBC08, LP02
Special packing provisions (UN RTDG) : B3
Portable tank and bulk container special instructions (UN RTDG) : T1
Portable tank and bulk container special provisions (UN RTDG) : TP33

IMDG

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Segregation (IMDG) : SGG18, SG35

IATA

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y845
PCA limited quantity max net quantity (IATA) : 5kg
PCA packing instructions (IATA) : 860
PCA max net quantity (IATA) : 25kg
CAO max net quantity (IATA) : 100kg
Special provisions (IATA) : A3, A803

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

Regulation		Component / Mixture
Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations	Applicable	disodium metasilicate; sodium carbonate; sodium p-cumenesulphonate; Fatty alcohol alkoxylate
Arms and Explosives Act	Not applicable	
Chemical Weapons Prohibition Act	Not applicable	
Environmental Protection and Management (Air Impurities) Regulations	Not applicable	
Environmental Protection and Management Act (Hazardous Substances)	Not applicable	
Environmental Public Health (Quality of Piped Drinking Water) Regulations	Not applicable	
Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations	Not applicable	
Maritime and Port Authority of Singapore (Dangerous, Petroleum and Explosives) Regulations	Not applicable	

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Misuse of Drugs Act	Not applicable	
Poisons Act	Poisons List	Cleaner Tab NaOH-free
Poisons Rules	First Schedule	Cleaner Tab NaOH-free
	Third Schedule	Cleaner Tab NaOH-free
Hazardous waste (Control of export, import and transit) Act	Not applicable	
Strategic goods (Control) Act	Not applicable	

15.2. International regulations

No additional information available

SECTION 16: Other information

Issue date	: 19/2/2026
Revision date	: 19/2/2026
Data sources	: Information provided by the manufacturer. European Chemicals Agency, http://echa.europa.eu/ . MSDSs of the suppliers.
Department issuing data specification sheet:	: KFT Chemieservice GmbH Im Leuschnerpark 3 D-64347 Griesheim Phone: +49 69 305 34 700 Fax: +49 69 305 86 500 SDS Service: +49 69 305 34 740
Abbreviations and acronyms	: ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road ATE - Acute Toxicity Estimate BCF - Bioconcentration factor CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 DMEL - Derived Minimal Effect level DNEL - Derived-No Effect Level EC50 - Median effective concentration IARC - International Agency for Research on Cancer IATA - International Air Transport Association IMDG - International Maritime Dangerous Goods LC50 - Median lethal concentration LD50 - Median lethal dose LOAEL - Lowest Observed Adverse Effect Level NOAEC - No-Observed Adverse Effect Concentration NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration OECD - Organisation for Economic Co-operation and Development PBT - Persistent Bioaccumulative Toxic PNEC - Predicted No-Effect Concentration REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail SDS - Safety Data Sheet STP - Sewage treatment plant TLM - Median Tolerance Limit vPvB - Very Persistent and Very Bioaccumulative

KFT SDS SG 11 - Version 25.1

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.