

# SAFETY DATA SHEET

Version number: 3.0  
Issued: 2022-11-07  
Replaces SDS: 2019-12-18

according to UN-GHS (ST/SG/AC.10/30/Rev.9)



## Cleaner Tab Active Green

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

#### 1.1. Product identifier

**Trade name**

Cleaner Tab Active Green

**Article No.**

56.01.537, 56.01.728

**UFI code**

GF02-WQX7-3W4J-83HR

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

**Relevant identified uses**

Cleaner tab for professional users.

**Not suitable for use in**

All other uses are discouraged.

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

**Supplier**

RATIONAL AG

Street address

Siegfried-Meister-Straße 1

86899 Landsberg am Lech

Germany

Telephone

+49 8191 327 387

Email

reinigung@rational-online.com

Fax

+49 8191 327 231

Web site

www.rational-online.com

#### 1.4. Emergency telephone number

Emergency CONTACT (24-Hour-Number): +49 6132 844 63

**Available outside office hours**

Yes

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## Cleaner Tab Active Green

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Skin corrosion, hazard category 1B

Serious eye damage, hazard category 1

Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation

##### Hazard statements

H314, H318, H335

#### 2.2. Label elements

##### Hazard pictograms



##### Signal word

Danger

##### Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

##### Precautionary statements

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

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

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.

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

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.

##### More information

Hazard components for labeling:  
disodium metasilicate

#### 2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Chemical name	CAS No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
disodium metasilicate	6834-92-0	40 - 60%	Skin Corr. 1B, STOT SE 3 - resp. tract irrit.	H314, H335 - -	-
sodium carbonate	497-19-8	10 - 30%	Eye Irrit. 2	H319 - -	-

#### ***Substance additional information***

For the complete text of H-statements mentioned in this section, see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### ***Description of first aid measures***

First responders: Pay attention to self-protection.

##### ***Inhalation***

Take the victim into fresh air. If symptoms persist, call a physician.

##### ***Skin contact***

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention immediately if irritation develops and persists.

##### ***Eye contact***

Call a physician immediately. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

##### ***Ingestion***

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Get medical attention immediately.

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### Information for doctors

For specialist advice physicians should contact the Poisons Information Service.

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

Immediate effects can be expected after long-term exposure.

### Inhalation

Not applicable.

### Skin contact

Causes burns.

### Eye contact

May cause irreversible eye damage.

### Ingestion

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

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

Treat symptomatically.

Show this safety data sheet to the doctor in attendance.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide (CO<sub>2</sub>).

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Corrosive.

Hazardous decomposition products formed under fire conditions.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

In the event of fire, wear self contained breathing apparatus.

#### Measures in case of fire

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid direct contact with the material / product.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Dispose of as hazardous waste in compliance with local and national regulations.

#### 6.4. Reference to other sections

For information on storage and handling see section 7.

For information on exposure and personal protective equipment, see Section 8.

For information on incompatible materials, see Section 10.

For information on disposal see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Preventive handling precautions

Wear personal protective equipment. Avoid direct contact with the material / product.

##### General hygiene

Wash hands after handling.

When using, do not eat, drink or smoke.

The usual precautionary measures when handling chemicals must be observed.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feeding stuffs. Store in a place accessible by authorized persons only. Keep out of reach of children.

Storage class according to TRGS 510: 8B (non-flammable, corrosive hazardous substances)

Suitable container and packaging materials for safe storage: store in original container.

Storage temperature: 10°C to 40°C

#### 7.3. Specific end use(s)

PC35 - Washing and cleaning products (including solvent based products)

See section 1.2: Cleaner tab

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No data available

#### 8.2. Exposure controls

##### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

##### Eye / face protection

Chemical-resistant safety glasses with side protection conforming to EN166.

##### Hand protection

Chemical-resistant protective gloves (EN 374)

Suitable material: Butyl (butyl rubber) or NBR (nitrile rubber), category III according to EN 374.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

##### Other skin protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

##### Respiratory protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

##### Thermal hazards

Not applicable

##### Environmental exposure controls

No special environmental precautions required.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Physical state

Tablet

##### Colour

White

##### Odour

Characteristic

##### Melting point / freezing point

Not applicable.

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### Boiling point or initial boiling point and boiling range

Not applicable.

### Flammability

Not applicable.

### Lower and upper explosion limit

The product / mixture has no explosive properties.

### Flash point

No data available

### Auto-ignition temperature

Not applicable.

### Decomposition temperature

No data available

### pH

12 - 13

### **Method**

1 % aqueous solution

### Kinematic viscosity

Not applicable.

### Viscosity, dynamic

No information available

### Solubility

Water soluble

### Water solubility

Completely soluble

### Partition coefficient n-octanol/water

No information available

### Vapour pressure

Not applicable.

### Density and/or relative density

No data available

### Relative density

No information available

### Relative vapour density

Not applicable.

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### Evaporation Rate

Not applicable.

### Explosive properties

The product / mixture has no explosive properties.

### Oxidising properties

The product / mixture has no oxidizing properties.

### VOC %

< 3 %

### Particle characteristics

This product / mixture does not contain any nanomaterials or nanoforms.

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable at normal conditions.

### 10.2. Chemical stability

The product is chemically stable.

### 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

Protect from moisture. Protect from frost, heat and sunlight.

### 10.5. Incompatible materials

strong acids  
Light metals  
Oxidizing agent

### 10.6. Hazardous decomposition products

For information on combustion products, see Section 5.  
Hazardous decomposition products formed under fire conditions.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes

No data is available on the product itself.

Toxicology data for the components.

#### Acute toxicity

Product / Substance name CAS no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals
sodium carbonate 497-19-8	LC50	2.300 mg/m <sup>3</sup>	Inhalativ	2h	rat
disodium metasilicate 6834-92-0	LD50	1.150 - 1.350mg/kg 770 - 820 mg/kg	Oral	-	rat mouse
sodium carbonate 497-19-8	LD50	2.800 mg/kg	Oral	-	rat
sodium carbonate 497-19-8	LD50	>2.000mg/kg	Dermal	-	rabbit

#### Skin corrosion/irritation

Causes severe skin burns.

#### Serious eye damage/irritation

Causes severe eye burns.

#### Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on the available data, the classification criteria are not met.

#### Repeated dose toxicity

Based on the available data, the classification criteria are not met.

#### Reproductive toxicity

Based on the available data, the classification criteria are not met.

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### STOT-single exposure

Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation

### STOT-repeated exposure

Based on the available data, the classification criteria are not met.

### Aspiration hazard

Based on the available data, the classification criteria are not met.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicity

No data is available on the product itself.

Toxicology data for the components.

#### Acute fish toxicity

Product / Substance name CAS no.	Measurement type	Value / Result	Duration of exposure	Species
disodium metasilicate 6834-92-0	LC50	210 mg/l	96h	Brachydanio rerio
sodium carbonate 497-19-8	LC50	300 mg/l	96h	Lepomis macrochirus

#### Acute algae toxicity

Product / Substance name CAS no.	Measurement type	Value / Result	Duration of exposure	Species
disodium metasilicate 6834-92-0	EC50	207 mg/l	72h	Chlorella pyrenoidosa

#### Acute crustacean toxicity

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Product / Substance name CAS no.	Measurement type	Value / Result	Duration of exposure	Species
disodium metasilicate 6834-92-0	EC50	1.700 mg/l	48h	Daphnia magna
sodium carbonate 497-19-8	EC50	200-227 mg/l	48h	Ceriodaphnia dubia

### Micro-/macro organism toxicity

Product / Substance name CAS /no.	Measurement type	Value / Result	Duration of exposure	Species
disodium metasilicate 6834-92-0	EC50	> 100 mg/l	3h	Bacteria (activated sludge)

### 12.2. Persistence and degradability

#### Persistence and degradability

The surfactants contained in this mixture / product meet the requirements for biodegradability in accordance with Regulation (EC) No. 648/2004 on detergents.

Readily biodegradable, according to appropriate OECD test.

OECD test guideline: 301 B (CO<sub>2</sub> Evolution Test)

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB.

### 12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties.

### 12.7. Other adverse effects

#### Other adverse effects

Neutralization is normally necessary before waste water is discharged into water treatment plants. Neutralisation will reduce ecotoxic effects.

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### Other

This product / mixture does not contain any substances that deplete the ozone layer.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

#### Packaging

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

Contaminated packaging / sheets: Dispose of as unused product.

Waste code	Waste description
20 01 29*	detergents containing hazardous substances

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

## SECTION 14: Transport information

### 14.1. UN number

3253

### 14.2. UN proper shipping name

#### ADR / RID / ADN proper shipping name

3253 - DISODIUM TRIOXOSILICATE

#### IMDG proper shipping name

DISODIUM TRIOXOSILICATE

### 14.3. Transport hazard class(es)

#### Label

ADR/RID/ADN



8

#### ADR / RID Class

8

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### ADR / RID Classification code

C6

### ADR / RID hazard identification number

80

### IMDG Class

8

### IATA Class

8

### ADN Class

8

### ADN Class Code

C6

#### 14.4. Packing group

III

#### 14.5. Environmental hazards

##### Environmental hazards

No

##### IMDG Marine Pollutant

No.

#### 14.6. Special precautions for user

##### IMDG EmS

F-A, S-B

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

#### Other

##### Additional information ADR-RID

LQ: 5kg

EQ: E1

Transport category (tunnel restriction code): 3 (E)

## SECTION 15: Regulatory information

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

##### National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

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### 15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

## SECTION 16: Other information

### Changes to previous revision

Section 3. Composition/information on ingredients

### Abbreviations

ADN - Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ADR - Accord relatif au transport international des marchandises Dangereuses par Route  
CAS - Chemical Abstract Service  
CLP - Classification, Labelling and Packaging  
DMEL - Derived Minimum Effect Level  
DNEL - Derived no effect level  
EC50 - Half maximal effective concentration 50%  
GHS - Globally Harmonised System  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal concentration 50%  
LD50 - Lethal dosis 50 %  
MARPOL - International Convention for the Prevention of Pollution from Ships  
PBT - Persistent, bioaccumulative and toxic substance  
PEC - Predicted Environmental Concentration  
PNEC - predicted no effect concentration  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID - Reglement concernant le transport international ferroviaire de marchandises Dangereuses  
SVHC - Substance of very high concern  
vPvB - Very persistent, very bioaccumulative substance

### References to key literature and data sources

REACH registration dossiers  
ECHA C&L - Inventory  
Safety data sheets from raw material suppliers

### Evaluation methods for classification

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

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### **Phrase meaning**

Skin Corr. 1B - Skin corrosion, hazard category 1B

Eye Dam. 1 - Serious eye damage, hazard category 1

STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation

Eye Irrit. 2 - Eye irritation, hazard category 2

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

### **Manufacturer's notes**

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.