

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

### 1.1 Product identifier

Trade name: Special-Cleaning Tablets for coffee machines

UFI: DM00-Q0M3-Q006-F5A6

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

General use: Cleaning agent

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

Company name: Menz + Könecke GmbH  
Street/POB-No.: An der Beek 255  
Postal Code, city: DE-41372 Niederkrüchten  
E-mail: info@menz.de  
Telephone: +49(0)2163594-0  
Telefax: +49(0)2163 5210

Department responsible for information: Sales E-mail: [info@menz.de](mailto:info@menz.de)

### 1.4 Emergency telephone number

**GIZ-Nord, Göttingen, Germany**  
**Telephone: +49 551-19240**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Dam. 1; H318 Causes serious eye damage.

### 2.2 Label elements

Labelling (CLP)



Signal word: **Danger**

Hazard statements: H315 Causes skin irritation.  
H318 Causes serious eye damage.

**Special-Cleaning Tablets for coffee machines**

## Precautionary statements:

P102	Keep out of reach of children.
P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
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.
P332+P313	If skin irritation occurs: Get medical advice/attention.

**Special labelling**

## Text for labelling:

Contains sodium percarbonate and Potassium peroxymonosulfate.  
Labelling for contents according to regulation (EC) No 648/2004, annex VII:  
Contains

- 5% or over but less than 15% phosphonates
- 15% or over but less than 30% oxygen-based bleaching agents

**2.3 Other hazards**

Contains phosphonates. May contribute to the eutrophication of water supplies.  
Contains Sodium percarbonate: May intensify fire; oxidiser.

## Results of PBT and vPvB assessment:

No data available

**SECTION 3: Composition/information on ingredients**

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterisation: Mixture of inorganic salts with organic materials

## Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 207-838-8 CAS 497-19-8	Sodium carbonate	25 - 50 %	Eye Irrit. 2; H319.
REACH 01-2119457268-30-xxxx EC No. 239-707-6 CAS 15630-89-4	Sodium percarbonate	10 - 20 %	Ox. Sol. 3; H272. Acute Tox. 4; H302. Eye Dam. 1; H318.
REACH 01-2119457026-42-xxxx EC No. 201-069-1 CAS 77-92-9	Citric acid, anhydrous	5 - 10 %	Eye Irrit. 2; H319.
EC No. 274-778-7 CAS 70693-62-8	Potassium peroxymonosulfate	< 5 %	Met. Corr. 1; H290. Acute Tox. 4; H302. Skin Corr. 1B; H314. Aquatic Chronic 3; H412.

Full text of H- and EUH-statements: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

In case of inhalation:	Provide fresh air. In case of respiratory difficulties seek medical attention.
Following skin contact:	Remove residues with water. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Rinse mouth and drink large quantities of water. Never give anything by mouth to an unconscious person. Consult physician.

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

Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

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

Fires in the immediate vicinity may cause the development of dangerous vapours. In case of fire may be liberated: Sodium compounds, sulphur oxides, phosphorus compounds, carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Hazchem-Code: -

Fire water reacts alkaline. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes.  
Avoid generation of dust. Do not breathe dust.  
Wear personal protection equipment.

### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

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

Take up mechanically, placing in appropriate containers for disposal.  
Wash spill area with plenty of water.

## 6.4 Reference to other sections

Refer additionally to section 8 and 13.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Advices on safe handling: In case of dust formation: Withdraw by suction. Do not breathe dust.  
Avoid contact with skin and eyes.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store in a dry place.

Hints on joint storage: Do not store together with highly inflammable or combustible materials.

## 7.3 Specific end use(s)

Cleaning agent

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Occupational exposure limit values:

Type	Limit value
Great Britain: WEL-TWA	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Great Britain: WEL-TWA	4 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
Ireland: 8 hours	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Ireland: 8 hours	4 mg/m <sup>3</sup> (Dust limit value, respirable fraction)

## 8.2 Exposure controls

Provide adequate ventilation. Vent dust from the work area.

## Personal protection equipment

### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.  
Particulates filter P2 according to EN 143.

Hand protection: Protective gloves according to EN 374.  
Glove material: Nitrile rubber or butyl caoutchouc (butyl rubber).  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Avoid contact with skin and eyes.  
Wash hands before breaks and after work.  
Remove contaminated clothing.  
Provide a conveniently located eye rinse station.  
When using do not eat or drink.

**Environmental exposure controls**

Refer to "6.2 Environmental precautions".

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: solid, Tablets Colour: white
Odour:	odourless
Odour threshold:	No data available
pH:	at 10%: 10.5
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	approx. 2 g/cm <sup>3</sup>
Water solubility:	soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

**9.2 Other information**

Additional information: No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Product is hygroscopic. Product reacts alkaline.

**10.2 Chemical stability**

Product is stable under normal storage conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4 Conditions to avoid**

No data available

## 10.5 Incompatible materials

strong acids and alkalis

## 10.6 Hazardous decomposition products

Sodium compounds, sulphur oxides, phosphorus compounds, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix (calculated): 2000 mg/kg < ATE <= 5000 mg/kg.

Information about Potassium peroxymonosulfate:

LD50 Rat, oral: 1200 - 2050 mg/kg.

Harmful if swallowed.

Information about Sodium percarbonate:

LD50 Rat, oral: 1034 - 2000 mg/kg.

Harmful if swallowed.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

## Symptoms

In case of inhalation: May cause irritations.

After eye contact: Redness, pain, corneal opacity.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.  
Contains phosphonates. May contribute to the eutrophication of water supplies.  
Information about Potassium peroxymonosulfate:  
Bacterial toxicity:  
EC50 *Pseudomonas putida*: 179 mg/L/18h.  
Daphnia toxicity:  
NOEC *Daphnia magna*: 1,8 mg/L/24h (OECD 202).  
LC50 *Daphnia magna*: 5,3 mg/L/24h (OECD 202).  
Fish toxicity:  
NOEC *Danio rerio* (zebrafish): 32 mg/L/96h (OECD 203).  
Source: IUCLID.

### 12.2 Persistence and degradability

Further details: The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 20 01 29\* = Detergents containing hazardous substances  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.  
Smaller amounts: Dilute with plenty of water.

#### Package

Recommendation: Waste key number 150101 - paper and cardboard packaging  
Waste key number 150102 - Plastic packaging: PVC/PVDC  
Waste key number 150104 - metallic packaging: Aluminium

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

### 14.5 Environmental hazards

Marine pollutant:

no

### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Great Britain

Hazchem-Code:

-

No data available

#### National regulations - EC member states

Further regulations, limitations and legal requirements:

No data available

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

### Further information

Classification procedure:

health hazards: calculation method



Wording of the H-phrases under paragraph 2 and 3:

- H272 = May intensify fire; oxidiser.
- H290 = May be corrosive to metals.
- H302 = Harmful if swallowed.
- H314 = Causes severe skin burns and eye damage.
- H315 = Causes skin irritation.
- H318 = Causes serious eye damage.
- H319 = Causes serious eye irritation.
- H412 = Harmful to aquatic life with long lasting effects.

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
- OEL: Occupational Exposure Limit Value
- AS/NZS: Australian Standards/New Zealand Standards
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- CLP: Classification, Labelling and Packaging
- DMEL: Derived minimal effect level
- DNEL: Derived no-effect level
- EC50: Effective Concentration 50%
- EC: European Community
- EN: European Standard
- EU: European Union
- IATA: International Air Transport Association
- IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IMDG Code: International Maritime Dangerous Goods Code
- LC50: Median lethal concentration
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- NOEC: No Observed Effect Concentration
- OSHA: Occupational Safety and Health Administration
- PBT: Persistent, bioaccumulative and toxic
- PNEC: Predicted no-effect concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- TLV: Threshold Limit Value
- vPvB: Very persistent and very bioaccumulative
- WEL: Workplace Exposure Limit

Reason of change: Changes in section 1.1: UFI

Date of first version: 22/1/2015

### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 1/3/2022  
Version: 8.0  
Language: en-GB,IE  
Date of print: 9/5/2022

## Special-Cleaning Tablets for coffee machines

Page: 10 of 10

---