

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

- **1.1 Product identifier:**
- **Trade name:** De-tannin powder for coffee machines
- **Article number:** EP1000004FC
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Application of the substance / the preparation:** Cleaning material/ Detergent
- **1.3 Details of the supplier of the safety data sheet:**
- **Manufacturer/Supplier:**
Schulz & Sohn GmbH
Chemie-Erzeugnisse
Hoeheweg 327
D-40231 Duesseldorf
info@schulzchemie.com
- **Distributet by:**
UCC Coffee UK Ltd.
2 Bradbourne Drive
Tilbrook
GB - Milton Keynes MK7 8AT
info@ucc-coffee.co.uk
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**
Toxin emergency call (24 hours):
Phone: +44 (0) 845 4647

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture:**
- **Classification according to Regulation (EC) No 1272/2008:**
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**
Xi; Irritant
R38-41: Irritating to skin. Risk of serious damage to eyes.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **2.2 Label elements:**
- **Labelling according to Regulation (EC) No 1272/2008:**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

Safety data sheet

according to 1907/2006/EC, Article 31

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Printing date 08.04.2015

Revision: 08.04.2015

Version number 1

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• **Signal word** Danger

• **Hazard-determining components of labelling:**

sodium metasilicate 5-hydrate

• **Hazard statements**

H314 Causes severe skin burns and eye damage.

• **Precautionary statements**

P260 Do not breathe dust.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/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.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **2.3 Other hazards:**

• **Results of PBT and vPvB assessment:**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

• **3.2 Chemical characterisation: Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 15630-89-4 EINECS: 239-707-6 Reg.nr.: 2119457268-30	sodium percarbonate ☒ Xn R22; ☒ Xi R41; ☒ O R8 ☒ Ox. Sol. 2, H272; ☒ Eye Dam. 1, H318; ☒ Acute Tox. 4, H302; Acute Tox. 4, H332	15 - <30%
CAS: 497-19-8 EINECS: 207-838-8 Reg.nr.: 2119485498-19	sodium carbonate ☒ Xi R36 ☒ Eye Irrit. 2, H319	15 - <30%
CAS: 10213-79-3 EINECS: 229-912-9 Reg.nr.: 2119449811-37-0003	sodium metasilicate 5-hydrate ☒ C R34; ☒ Xi R37 ☒ Met. Corr. 1, H290; Skin Corr. 1B, H314; ☒ Acute Tox. 4, H302; STOT SE 3, H335	5 - <15%

• **Regulation (EC) No 648/2004 on detergents / Labelling for contents:**

phosphates	≥ 30%
oxygen-based bleaching agents	15 - 30%

• **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

• **4.1 Description of first aid measures:**

• **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

• **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

• **After swallowing:** Rinse out mouth and then drink plenty of water.

• **4.2 Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

• **4.3 Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media:**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters:**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** Avoid formation of dust.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:** The usual precautions when handling chemicals should be taken.
- **Information about fire - and explosion protection:** Protect from heat.
- **7.2 Conditions for safe storage, including any incompatibilities:**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Storage class:** 13
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters:**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs:****10213-79-3 sodium metasilicate 5-hydrate**

Oral	DNEL (population)	0.74 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	0.74 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	1.49 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	1.55 mg/m ³ (Long-term - systemic effects)
	DNEL (worker)	6.22 mg/m ³ (Long-term - systemic effects)

· **PNECs:****10213-79-3 sodium metasilicate 5-hydrate**

PNEC	1000 mg/L (STP)
PNEC aqua	7.5 mg/L (fish)
	7.5 mg/L (intermittent releases)
	1 mg/L (marine water)

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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the skin.
 - Avoid contact with the eyes and skin.
- **Respiratory protection:**
 - Not necessary if room is well-ventilated.
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves!

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles!

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties:**

- **General Information:**

- **Appearance:**

Form:	Solid
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.

- **pH-value (100 g/l) at 20 °C:** 11.2

- **Change in condition:**
 - Melting point/Melting range:** Undetermined.
 - Boiling point/Boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not determined.

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· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density at 20 °C:	1.1 g/cm ³
· Relative density:	Not determined.
· Vapour density:	Not applicable.
· Evaporation rate:	Not applicable.
· Solubility in / Miscibility with:	
water:	Soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
Water:	7.5 %
VOC (EC):	0.00 %
Solids content:	100.0 %
· 9.2 Other information:	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity:
- 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects:
- Acute toxicity:

· LD/LC50 values relevant for classification:		
15630-89-4 sodium percarbonate		
Oral	LD50	1034 mg/kg (rat)
Dermal	LD50	2001 mg/kg (rabbit)
Inhalative	LC50/4 h	2.275 mg/L (rat)
10213-79-3 sodium metasilicate 5-hydrate		
Oral	LD50	1152-1349 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)

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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

SECTION 12: Ecological information

· 12.1 Toxicity:

· **Aquatic toxicity:**

10213-79-3 sodium metasilicate 5-hydrate

Inhalative | LC50/96 h | 210 mg/L (fish)

- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods:**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No

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· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	-

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**
No further relevant information available.
- **15.2 Chemical safety assessment::** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases:**

H272 May intensify fire; oxidiser.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

R22 Harmful if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.
R8 Contact with combustible material may cause fire.

- **Department issuing MSDS:** Product safety department

- **Contact:** Mr. Saurbier

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Ox. Sol. 2: Oxidising Solids, Hazard Category 2
Met. Corr. 1: Corrosive to metals, Hazard Category 1
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3