

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

- **Product identifier:**

- **Trade name:** Thermo Coffee Tabs evolution

- **Article number:** 144.493-144.494

- **Relevant identified uses of the substance or mixture and uses advised against:**

- **Product category:** PC35 Washing and cleaning products (including solvent based products)

- **Application of the substance / the preparation:** Cleaning material/ Detergent

- **Details of the supplier of the safety data sheet:**

- **Manufacturer/Supplier:**

Schulz & Sohn GmbH

Chemie-Erzeugnisse

Hoeherweg 327

D-40231 Duesseldorf

sida@schulzchemie.com

Distributet by:

Thermoplan AG

Thermoplan-Platz 1

CH-6353 Weggis

Tel.: +41 41 3921200

thermoplan@thermoplan.ch

- **Further information obtainable from:** Product safety department

- **Emergency telephone number:**

Toxin emergency call (24 hours):

Phone: +44 (0) 845 4647

2 Hazards identification

- **Classification of the substance or mixture:**

Acute Tox. 5 H313 May be harmful in contact with skin.

Acute Tox. 5 H333 May be harmful if inhaled.

Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements:**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS05

- **Signal word Danger**

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

sodium percarbonate

tartaric acid

- **Hazard statements**

May be harmful in contact with skin or if inhaled.

Causes serious eye damage.

- **Precautionary statements**

Wash hands thoroughly after handling.

Wear eye protection / face protection.

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

If eye irritation persists: Get medical advice/attention.

· **Other hazards:**

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

· **PBT:** Not applicable

· **vPvB:** Not applicable

3 Composition/information on ingredients

· **Chemical characterisation: Mixtures**

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

Dangerous components:		
497-19-8	sodium carbonate ! Eye Irrit. 2, H319; Acute Tox. 5, H303	15-<30%
15630-89-4	sodium percarbonate ! Ox. Sol. 2, H272; ! Eye Dam. 1, H318; ! Acute Tox. 4, H332; Acute Tox. 5, H313	15-<30%
87-69-4	tartaric acid ! Eye Dam. 1, H318; Acute Tox. 5, H303; Acute Tox. 5, H313	15-<30%
25322-68-3	polyethylene glycol	1-<5%
25322-68-3	polyethylene glycol Acute Tox. 5, H303	1-<5%

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

oxygen-based bleaching agents	≥15 - <30%
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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· **Description of first aid measures:**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately rinse with water.

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

· **After swallowing:**

Call for a doctor immediately.

Rinse out mouth and then drink plenty of water.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

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

No further relevant information available.

5 Firefighting measures

· **Extinguishing media:**

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **Special hazards arising from the substance or mixture:** No further relevant information available.

· **Advice for firefighters:**

· **Protective equipment:** Wear self-contained respiratory protective device.

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6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Not required
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling:** Prevent formation of dust.
- **Information about fire - and explosion protection:** Protect from heat.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Storage between 5 and 40°C.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.
Store in dry conditions.
Protect from humidity and water.
- **Storage class:** 13
- **Specific end use(s):** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.

- **Control parameters:**

- **Ingredients with limit values that require monitoring at the workplace:**

25322-68-3 polyethylene glycol	
WEEL (USA)	Long-term value: 10 mg/m ³ (H); MW>200

- **Additional information:** The lists valid during the making were used as basis.

- **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 eyes.

- **Respiratory protection:**

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.

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· **Protection of hands:**



Protective gloves!

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

Recommendation:

uvex u-chem 3000 (DIN EN 374)

Material: Nitrile rubber, NBR

Thickness of the material: 0,5 mm

Value for the permeation: > 480 min (Level 6)

Recommendation:

uvex u-fit strong N2000 (DIN EN 374)

Material: Nitrile rubber, NBR

Thickness of the material: 0,2 mm

Value for the permeation: > 480 min (Level 6)

· **Penetration time of glove material:**

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye protection:**



Tightly sealed goggles!

9 Physical and chemical properties

· **Information on basic physical and chemical properties:**

· **General Information:**

· **Appearance:**

Form: Tablets

Colour: White

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined

· **pH-value at 20 °C:**

9.8 (10%)

· **Change in condition:**

Melting point/freezing point: Undetermined

Initial boiling point and boiling range: Undetermined

· **Flash point:**

Not applicable

· **Flammability**

Not determined

· **Decomposition temperature:**

Not determined

· **Ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined

Upper: Not determined

· **Vapour pressure:**

Not applicable

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· Density at 20 °C:	0.962 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: Water:	0.4 %
· Solids content:	100.0 %
· Other information:	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

- **Information on toxicological effects:**

- **Acute toxicity**

· LD/LC50 values relevant for classification:
497-19-8 sodium carbonate
Oral LD50 4,090 mg/kg (rat)

- **Primary irritant effect:**

- **Serious eye damage/irritation** Strong irritant with the danger of severe eye injury.

- **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:

Harmful

Irritant

12 Ecological information

- **Toxicity:**

· Aquatic toxicity:
497-19-8 sodium carbonate
Inhalative LC50/96 h 300 mg/L (fish) EC50/48 h 265 mg/L (daphnia)

- **Persistence and degradability:** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential:** No further relevant information available.

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· **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.

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

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **Other adverse effects:** No further relevant information available.

13 Disposal considerations

· **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.

14 Transport information

· UN-Number	
· ADR, IMDG, IATA	Void
· UN proper shipping name	
· ADR, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable
· Special precautions for user	Not applicable
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· UN "Model Regulation":	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

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H303 May be harmful if swallowed.

H313 May be harmful in contact with skin.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

· **Department issuing SDS:** HSE department

· **Contact:** HSE Department

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Sol. 2: Oxidizing solids – Category 2

Acute Tox. 5: Acute toxicity – Category 5

Acute Tox. 4: Acute toxicity – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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