


## 1 Identification

- **Product identifier:**
- **Trade name:** Thermo Coffee Tabs evolution
- **Article number:** 144.493-144.494
- **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
- **Information department:** Product safety department
- **Emergency telephone number:**  
POISON CONTROL  
National Capital Poison Center  
Tel.: 1-800-222-1222

## 2 Hazard(s) identification

- **Classification of the substance or mixture:**  
Eye Damage 1 H318 Causes serious eye damage.
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- **Label elements:**
  - **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms:**  
  
GHS05
  - **Signal word:** Danger
  - **Hazard-determining components of labeling:**  
sodium percarbonate  
tartaric acid
  - **Hazard statements:**  
Causes serious eye damage.
  - **Precautionary statements:**  
Wash hands thoroughly after handling.  
Wear eye protection / face protection.  
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.

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· **Classification system:**· **NFPA ratings (scale 0 - 4):**

Health = 3  
Fire = 0  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4):**

Health = 3  
Fire = 0  
Reactivity = 0

· **Other hazards:**· **Results of PBT and vPvB assessment:**· **PBT:** Not applicable· **vPvB:** Not applicable**3 Composition/information on ingredients**· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 497-19-8 EINECS: 207-838-8	sodium carbonate ⚠ Eye Irritation 2A, H319	15-<30%
CAS: 15630-89-4 EINECS: 239-707-6	sodium percarbonate ⚠ Oxidizing Solids 2, H272; ⚠ Eye Damage 1, H318; ⚠ Acute Toxicity - Inhalation 4, H332	15-<30%
CAS: 87-69-4 EINECS: 201-766-0	tartaric acid ⚠ Eye Damage 1, H318	15-<30%
CAS: 25322-68-3 EINECS: 203-473-3	polyethylene glycol	1-<5%

**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:**

Immediately call a doctor.

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 Fire-fighting measures**· **Extinguishing media:**· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.· **Special hazards arising from the substance or mixture:** No further relevant information available.

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- **Advice for firefighters:**
- **Protective equipment:** Wear self-contained respiratory protective device.

## 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.
- **Protective Action Criteria for Chemicals**

### · PAC-1:

497-19-8	sodium carbonate	7.6 mg/m3
87-69-4	tartaric acid	4.0 mg/m3
	Alkohole, C16-18, ethoxyliert	3.8 mg/m3
25322-68-3	polyethylene glycol	30 mg/m3
10213-79-3	sodium metasilicate 5-hydrate	6.6 mg/m3

### · PAC-2:

497-19-8	sodium carbonate	83 mg/m3
87-69-4	tartaric acid	460 mg/m3
	Alkohole, C16-18, ethoxyliert	42 mg/m3
25322-68-3	polyethylene glycol	1300 mg/m3
10213-79-3	sodium metasilicate 5-hydrate	73 mg/m3

### · PAC-3:

497-19-8	sodium carbonate	500 mg/m3
87-69-4	tartaric acid	2700 mg/m3
	Alkohole, C16-18, ethoxyliert	250 mg/m3
25322-68-3	polyethylene glycol	7700 mg/m3
10213-79-3	sodium metasilicate 5-hydrate	440 mg/m3

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:** 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 receptacle 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.

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## 8 Exposure controls/personal protection

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

· **Control parameters:**

· **Components with limit values that require monitoring at the workplace:**

**25322-68-3 polyethylene glycol**

WEEL	Long-term value: 10 mg/m <sup>3</sup> (H); MW>200
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· **Additional information:** The lists that were valid during the creation 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.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **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!

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**9 Physical and chemical properties**

· <b>Information on basic physical and chemical properties:</b>	
· <b>General Information:</b>	
· <b>Appearance:</b>	
Form:	Tablets
Color:	White
· Odor:	Characteristic
· Odor threshold:	Not determined
· pH-value at 20 °C (68 °F):	9.8 (10%)
· <b>Change in condition:</b>	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	Undetermined
· Flash point:	Not applicable
· Flammability:	Not determined
· Decomposition temperature:	Not determined
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
Lower:	Not determined
Upper:	Not determined
· Vapor pressure:	Not applicable
· Density at 20 °C (68 °F):	0.962 g/cm <sup>3</sup> (8.028 lbs/gal)
· Relative density:	Not determined
· Vapour density:	Not applicable
· Evaporation rate:	Not applicable.
· <b>Solubility in / Miscibility with:</b>	
Water:	Soluble.
· <b>Partition coefficient (n-octanol/water):</b> Not determined	
· <b>Viscosity:</b>	
Dynamic:	Not applicable
Kinematic:	Not applicable
· <b>Solvent content:</b>	
Water:	0.4 %
VOC content:	0.00 %
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.

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## 11 Toxicological information

### · Information on toxicological effects:

#### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

##### 497-19-8 sodium carbonate

Oral | LD50 | 4,090 mg/kg (rat)

#### · Primary irritant effect:

· on the eye: Strong irritant with the danger of severe eye injury.

#### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

#### · Carcinogenic categories:

#### · IARC (International Agency for Research on Cancer):

None of the ingredients is listed.

#### · NTP (National Toxicology Program):

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 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.

· Behavior in environmental systems:

· Bioaccumulative potential: No further relevant information available.

· Mobility in soil: No further relevant information available.

#### · Additional ecological information:

#### · General notes:

Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.

#### · Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

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- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· <b>UN-Number</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>UN proper shipping name</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Transport hazard class(es)</b>	
· <b>DOT, ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	Not applicable
· <b>Special precautions for user</b>	Not applicable
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable
· <b>UN "Model Regulation":</b>	Void

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
No further relevant information available.

- **Sara:**

· <b>Section 355 (extremely hazardous substances):</b>		
None of the ingredients is listed.		
· <b>Section 313 (Specific toxic chemical listings):</b>		
None of the ingredients is listed.		
· <b>TSCA (Toxic Substances Control Act):</b>		
497-19-8	sodium carbonate	ACTIVE
15630-89-4	sodium percarbonate	ACTIVE
144538-83-0	Tetranatriumiminodisuccinat	ACTIVE
87-69-4	tartaric acid	ACTIVE
	Alkohole, C16-18, ethoxyliert	ACTIVE
25322-68-3	polyethylene glycol	ACTIVE
7732-18-5	water	ACTIVE
· <b>Hazardous Air Pollutants</b>		
None of the ingredients is listed.		
· <b>Proposition 65:</b>		
· <b>Chemicals known to cause cancer:</b>		
None of the ingredients is listed.		
· <b>Chemicals known to cause reproductive toxicity for females:</b>		
None of the ingredients is listed.		
· <b>Chemicals known to cause reproductive toxicity for males:</b>		
None of the ingredients is listed.		
· <b>Chemicals known to cause developmental toxicity:</b>		
None of the ingredients is listed.		

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· **Carcinogenic categories:**· **EPA (Environmental Protection Agency):**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

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; oxidizer.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.

· **Department issuing SDS:** HSE department· **Contact:** HSE Department· **Date of preparation / last revision** 12/17/2025 / -· **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  
DOT: US Department of Transportation  
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)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Oxidizing Solids 2: Oxidizing solids – Category 2  
Acute Toxicity - Inhalation 4: Acute toxicity – Category 4  
Eye Damage 1: Serious eye damage/eye irritation – Category 1  
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

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