

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

· 1.1 Product identifier:

· **Trade name:** Black & White cleaning tablets

· **Article number:** EP1000021ThCH

· **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
Hoeherweg 327
D-40231 Duesseldorf
info@schulzchemie.com

Distributet by:
Thermoplan AG
Thermoplan-Platz 1
CH-6353 Weggis
thermoplan@thermoplan.ch

· **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:**

Eye Dam. 1 H318 Causes serious eye damage.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**

Xn; Harmful

R22: Harmful if swallowed.

Xi; Irritant

R41: 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

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according to 1907/2006/EC, Article 31

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• **Signal word** Danger

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

sodium percarbonate

tartaric acid

• **Hazard statements**

H318 Causes serious eye damage.

• **Precautionary statements**

P280

Wear protective clothing / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313

Get medical advice/attention.

• **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: 497-19-8 EINECS: 207-838-8 Reg.nr.: 2119485498-19	sodium carbonate  Xi R36  Eye Irrit. 2, H319	15 - <30%
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: 133-37-9 EINECS: 205-105-7	tartaric acid  Xi R41  Eye Dam. 1, H318	15 - <30%

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

oxygen-based bleaching agents, phosphates	15 - 30%
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• **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:**

• **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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:** Generally the product does not irritate the skin.

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

• **After swallowing:** Call for a doctor immediately.

• **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.
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters:**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
- **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:** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities:**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **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.
- **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 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:**

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:	Characteristic
Odour threshold:	Not determined.

pH-value (10 g/l) at 20 °C:	10.2
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· **Change in condition:**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

Flash point:	Not applicable.
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Flammability (solid, gaseous):	Not determined.
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· **Ignition temperature:**

Decomposition temperature:	Not determined.
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Self-igniting:	Product is not selfigniting.
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Danger of explosion:	Product does not present an explosion hazard.
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· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure:	Not applicable.
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· **Density:**

Relative density:	Not determined.
Vapour density:	Not applicable.
Evaporation rate:	Not applicable.

Solubility in / Miscibility with: water:	Soluble.
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Partition coefficient (n-octanol/water):	Not determined.
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· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
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)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **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:** No further relevant information available.
- **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.

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- **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
· 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.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
.....
R22 Harmful if swallowed.
R36 Irritating to eyes.
R41 Risk of serious damage to eyes.
R8 Contact with combustible material may cause fire.

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- **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ox. Sol. 2: Oxidising Solids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

- *** Data compared to the previous version altered.**

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