



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

· 1.1 Product identifier

· **Trade name:** Cleaning tablets

· **Article number:**

32502
32523
32503
32499

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

· **Application of the substance / the preparation**

Commercial cleaner
Cleaner for machines and kitchen appliances

· 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

Liberty Vertriebs GmbH
Bonner Straße 103
D - 40589 Duesseldorf
Phone: +49 211 753520
Fax +49 211 753575
verkauf@libertyshop.de

· **Further information obtainable from:** product safety department

· 1.4 Emergency telephone number:

Toxin emergency call (24 hours):
Phone: +49 (0)30 19240
Advice in English and German.

* 2 Hazards identification

· 2.1 Classification of the substance or mixture

· **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 EC" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EC-lists, and extended by company and literature data.

· 2.2 Label elements

· **Labelling according to EC guidelines:**

The product has been classified and marked in accordance with EC Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xn Harmful



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

sodium percarbonate

· **Risk phrases:**

22 Harmful if swallowed.
41 Risk of serious damage to eyes.

· **Safety phrases:**

25 Avoid contact with eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
46 If swallowed, seek medical advice immediately and show this container or label.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

* **3 Composition/information on ingredients**

· **3.2 Chemical characterization: Mixtures**

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

· **Dangerous components:**

CAS: 497-19-8 EINECS: 207-838-8	sodium carbonate ☒ Xi R36 ⚠ Eye Irrit. 2, H319	15 - <30%
CAS: 15630-89-4 EINECS: 239-707-6	sodium percarbonate ☒ Xn R22; ☒ Xi R41; ☒ O R8 ⚠ Ox. Liq. 2, H272; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; ⚠ Acute Tox. 4, H332	15 - <30%
CAS: 87-69-4 EINECS: 201-766-0	tartaric acid ☒ Xi R36/37/38 ⚠ Eye Irrit. 2, H319	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.

* **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.

Personal protection for the First Aider.

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

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

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

· **After swallowing:** Drink water. Avoid vomiting. Consult a doctor.

· **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.



* 5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray.
Adapt extinguishing agents on the surrounding area.
- **5.2 Special hazards arising from the substance or mixture**
In case of incomplete combustion formation of carbon monoxide (CO) possible.
- **5.3 Advice for firefighters**
- **Protective equipment:** In case of formation of carbon monoxide (CO) use breathable air bottle.

* 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.
Avoid contact with skin, eyes and clothing.
- **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. Avoid formation of dust. Care for enough aeration.
Continue to use the not contaminated materials. For disposal of contaminated materials see 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.

* 7 Handling and storage

- **7.1 Precautions for safe handling**
Follow the general preventive measures when working with chemicals.
Keep receptacles tightly sealed.
Do not breath in dust. Avoid contact with eyes, skin and clothes.
- **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:** Store product only in adapted bottles.
- **Information about storage in one common storage facility:** Attend the national guidelines for storage.
- **Further information about storage conditions:** None.
- **Storage class:** 13 VCI
- **7.3 Specific end use(s)** Do not use with other chemicals.

* 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:**



Short term filter device:

Particlefilter P2

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Recommendation from the company KCL:

article: 395 combi-latex, material: natural-latex, thickness: 1.0 mm

article: 720 camapren, material: chloroprene, thickness: 0.65 mm

article: 730 catril velours, material: nitrile, thickness: 0.40 mm

· **Penetration time of glove material** All materials have a penetration time > 480 min = level 6.

· **Eye protection:**



Tightly sealed goggles

* 9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Solid
Colour:	White
· Odour:	Characteristic
· pH-value (10 g/l) at 20.0°C:	10.16 (DIN 38404-5)
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Self-ignitibility:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined.
· Solubility in / Miscibility with water:	Soluble.
· Solvent content:	
Organic solvents:	0.0 %
· 9.2 Other information	No further relevant information available.



* 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** Avoid heat and moisture.
- **10.5 Incompatible materials:** Acids.
- **10.6 Hazardous decomposition products:** With acids formation of carbon dioxide (CO₂).

* 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	>2000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant

* 12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability**
The surfactants contained in the product correspond to the direction on the environmental compatibility of detergents and are biodegradable.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** No ecotoxicological information known. Toxic effect to aquatic organisms are not to exclude.
- **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 enter 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.

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 cleaning agents.

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.

* 15 Regulatory information

- **15.2 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.
- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
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- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R41 Risk of serious damage to eyes.
- R8 Contact with combustible material may cause fire.

- **Department issuing MSDS:** product safety department
- **Contact:**
- *** Data compared to the previous version altered.**