

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.08.2012

Version number 7

Revision: 17.08.2012

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

· *Date of issue:* 08.11.2003

· *1.1 Product identifier*

· *Trade name:* **Soda**

· *Synonym(s):* Natriumcarbonat-Soda

· *CAS Number:*

497-19-8

· *EC number:*

207-838-8

Index number:

011-005-00-2

Registration number: REACH: 01-2119485498-19

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:

Industrial use

Glass processing

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier:

Kreidezeit Naturfarben GmbH

Kassemuehle 3

D - 31196 Sehlem

Germany

phone: +49-(0)5060-6080650

fax: +49-(0)5060-6080680

· *E-mail address of the competent person responsible for the Safety Data Sheet:* **info@kreidezeit.de**

· *Informing department:*

Quality management department

laboratory, phone: +49-(0)5060-6080650

· *1.4 Emergency telephone number:*

Kreidezeit Naturfarben GmbH

phone: +49-(0)5060-6080650

(only during opening times)

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SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

- **Eye Irrit. 2 H319** Causes serious eye irritation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

- **R36:** Irritating to eyes.
- **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 substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**
H319 Causes serious eye irritation.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash thoroughly after handling.
P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: 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

- **3.1 Chemical characterization: Substances**
- **CAS No. Designation:**
497-19-8 Sodium carbonate
- **Identification number(s):**
- **EC number:** 207-838-8
- **Index number:** 011-005-00-2

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Remove contaminated clothing.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact:** Rinse with plenty of water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.

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- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting!
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed**
Coughing
Sickness
Gastric or intestinal trouble
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Product does not burn - take extinguishing measures according to fire conditions.
- **For safety reasons unsuitable extinguishing agents** void
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Sodium oxide (Na₂O)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Avoid causing dust.
Avoid contact with skin and eyes.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Damp down dust with water spray jet.
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Collect mechanically.
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
Any deposit of dust which cannot be avoided must be removed regularly.
Do not breathe dust.
Make sure that all applicable workplace limits are observed.
Avoid contact with eyes.
Avoid prolonged or repeated skin contact.
- **Information about protection against explosions and fires:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Do not store together with acids.

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- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from humidity and keep away from water.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** Observe all workplace limits for dust.
- **DNELs** no data available
- **PNECs** no data available
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Instantly remove any contaminated garments.
Do not eat, drink or smoke while working.
Do not breathe dust.
Avoid contact with the eyes.
Avoid close or long term contact with the skin.
Wash hands during breaks and at the end of the work.
Use skin protection cream for preventive skin protection.
- **Breathing equipment:** Dust proof mask - particle filter mask
- **Recommended filter device for short term use:** Partikelfilter EN 143 Type P2
- **Protection of hands:**
Protective gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Check the permeability prior to each renewed use of the glove.
To avoid skin problems reduce the wearing of gloves to the required minimum.
- **Material of gloves**
Natural rubber - NR
Recommended thickness of the material: ≥ 0.6 mm
e.g. KCL Lapren®706
Chloroprene rubber - CR
Neoprene gloves
Nitrile rubber - NBR
Fluorocarbon rubber (Viton) - FKM
Butyl rubber - BR
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.
- **Penetration time of glove material**
Penetration time: ≥ 8 hours
Protective gloves should be replaced at first signs of wear.
- **Eye protection:** Tightly sealed safety glasses
- **Body protection:**
Protective work clothing
Body protection must be chosen depending on activity and possible exposure.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: solid in various forms

Colour: colourless

white

· Smell: odourless

· Odour threshold: not applicable

· pH-value (10 g/l) at 20°C: 11.3

· Change in condition

Melting point/Melting range: 851 ~ 854°C

Boiling point/Boiling range: not applicable

· Flash point: not applicable

· Inflammability (solid, gaseous) Product is not inflammable.

· Ignition temperature: not applicable

· Decomposition temperature: > 400°C

· Self-inflammability: Product is not selfigniting.

· Danger of explosion: Product is not explosive.

· Critical values for explosion:

Oxidizing properties not classified as oxidising

· Vapor pressure: not applicable

· Density at 20°C: ~2.53 g/cm³

· Bulk density: 500 ~ 800 kg/m³

· Vapour density (AIR = 1): not applicable

· Evaporation rate not applicable

· Solubility in / Miscibility with

Water at 20°C: 210 ~ 215 g/l

· Organic solvents: not determined

· Partition coefficient (n-octanol/water): Not bioaccumulative

· Viscosity:

dynamic: Not applicable.

kinematic: Not applicable.

· 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:

To avoid thermal decomposition do not overheat.

Temperature over 400°C

Protect from moisture.

· 10.3 Possibility of hazardous reactions Reacts with acids under vigorous gas release. Danger of splashing of acid.

· 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: Strong acids

· 10.6 Hazardous decomposition products:

Carbon monoxide (CO) and Carbon dioxide (CO₂)

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Sodium oxide (Na₂O)

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral	LD50	2800 - 4090 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/2 h	0.8 mg/l (guinea pig)
		1.2 mg/l (mouse)
		2.3 mg/l (rat)

Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** Causes serious eye irritation.
- **Sensitization:** No sensitizing effect known.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

EC50/48 h	265 mg/l (water flea (daphnia magna))
LC50/96 h	740 mg/l (fish)
	300 mg/l (bluegill (lepomis macrochirus))

· **12.2 Persistence and degradability** Anorganic product, is not removable from water by biological cleaning process

· **12.3 Bioaccumulative potential** Not bioaccumulative

· **12.4 Mobility in soil** No further relevant information available.

Additional ecological information:

· **Chemical Oxygen Demand (COD-value):** not applicable

· **Biochemical Oxygen Demand (BOD5-value):** not applicable

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Water hazard class 1 (Assessment by list): slightly hazardous for water

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** Disposal must be made according to official regulations.

· **Waste disposal key number:** According to local/national regulations.

· **European waste catalogue:** Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

Uncleaned packagings:

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

· **Recommended cleaning agent:** Water

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SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR · Class · Label	Void void
· IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	Not applicable. 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.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Information about limitation of use: Employment restrictions concerning young persons must be observed.
- Decree to be applied in case of technical fault: Directive 96/82/EC does not apply.
- Water hazard class:
Water hazard class 1 (Assessment by list): slightly hazardous for water
ID-Number: 222
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Reasons for changes:
The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.
- Department issuing MSDS:
- Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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*ICAO: International Civil Aviation Organization**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 Harmonized System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent*

· **Sources:** These data are based on information submitted by pre-suppliers.

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

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