



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

sodium carbonate

Version 3.0
Revision Date 2010/11/19

Print Date 2010/11/19
MSDS code: MSCR100

Hazard class	Hazard category	Target Organs	Hazard statements
Serious eye damage/eye irritation	Category 2		H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Irritant (Xi)	R36


For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

- Human Health : See section 11 for toxicological information. No further information available.
- Physical and chemical hazards : See section 9 for physicochemical information. No further information available.
- Potential environmental effects : See section 12 for environmental information. No further information available.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

- Hazard symbols : 
- Signal word : Warning
- Hazard statements : H319 Causes serious eye irritation.
- Precautionary statements



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Prevention : P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ protective clothing/
eye protection/ face protection.

Response : 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.

Hazardous components which must be listed on the label:

- sodium carbonate

2.3. Other hazards

No other information is available.

3. Composition/information on ingredients

3.1. Substances

Chemical Name	Identification Number	Amount [%]
sodium carbonate	Index-No. : 011-005-00-2	
	CAS-No. : 497-19-8	<= 100
	EC-No. : 207-838-8	

4. First aid measures

4.1 Description of first aid measures



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General advice	: Take off all contaminated clothing immediately.
If inhaled	: Remove to fresh air.
In case of skin contact	: Wash off immediately with soap and plenty of water.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately. If conscious, drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: No further information available.
Effects	: No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment	: Treat symptomatically. No further information available.
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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.
Unsuitable extinguishing media	: No information available.

5.2. Special hazards arising from the substance or mixture



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Specific hazards during fire fighting : Incomplete combustion may form toxic pyrolysis products.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Avoid dust formation. Avoid contact with skin and eyes. For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

For personal protection see section 8.



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7. Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Keep container tightly closed. Use personal protective equipment. Avoid dust formation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.
- Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before eating, drinking, or smoking. Provide adequate ventilation. Avoid contact with the skin and the eyes.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep in an area equipped with alkali resistant flooring. Store in original container.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Further information on storage conditions : Keep tightly closed in a dry and cool place. Avoid moisture. Product is hygroscopic.
- Advice on common storage : Do not store near acids. Keep away from food, drink and animal feedingstuffs.
- German storage class : 13 Non Combustible Solids

7.3 Specific end uses

- Specific use(s) : No information available.



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8. Exposure controls/personal protection

8.1. Control parameters

Other OELs

(Additional) : Contains no substances with occupational exposure limit values.
Information

8.2. Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection

Advice : Required if dust is released
Respirator with a dust filter
Recommended Filter type:
Particle filter:P2
Particle filter:P3

Hand protection

Advice : The glove material has to be impermeable and resistant to the product / the substance / the preparation.
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first signs of wear.
The following materials are suitable:

Material : butyl-rubber

Gloves : ≥ 8 h



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Glove thickness : 0.5 mm

Material : Natural Rubber

Gloves : ≥ 8 h

Glove thickness : 0.5 mm

Material : polychloroprene

Gloves : ≥ 8 h

Glove thickness : 0.5 mm

Material : Nitrile rubber

Gloves : ≥ 8 h

Glove thickness : 0.35 mm

Material : Fluorinated rubber

Gloves : ≥ 8 h

Glove thickness : 0.4 mm

Material : Polyvinylchloride

Gloves : ≥ 8 h

Glove thickness : 0.5 mm

Eye protection

Advice : Safety glasses

Skin and body protection



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Advice : Wear suitable protective clothing.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: crystalline or powder
Colour	: white
Odour	: odourless
Odour Threshold	: Currently we do not have any Information from our supplier about this.
pH	: 11.6 100 g/l 20 °C
Freezing point	: 851 °C
Boiling point	: 1,600 °C
Flash point	: not applicable
Evaporation rate	: not applicable
Flammability (solid, gas)	: not applicable
Upper explosion limit	: not applicable
Lower explosion limit	: not applicable
Vapour pressure	: Currently we do not have any Information from our supplier about this.
Relative vapour density	: not applicable



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Relative density	: 2.53 20 °C
Density	: 2.53 g/cm ³ 20 °C
Water solubility	: 215 g/l 20 °C
Partition coefficient: n-octanol/water	: not applicable
Ignition temperature	: Currently we do not have any Information from our supplier about this.
Thermal decomposition	: Currently we do not have any Information from our supplier about this.
Viscosity, kinematic	: Currently we do not have any Information from our supplier about this.
Explosive properties	: Currently we do not have any Information from our supplier about this.
Oxidizing properties	: Currently we do not have any Information from our supplier about this.

9.2 Other information

Molecular Weight	: 106 g/mol
Bulk density	: 500 - 700 kg/m ³

10. Stability and reactivity

10.1. Reactivity

Advice : No information available.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.
No further information available.

10.3. Possibility of hazardous reactions

Hazardous reactions : Product is hygroscopic. Reacts exothermic with water



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10.4. Conditions to avoid

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : Strong acids and strong bases
Zinc
Acids
Aluminium
Water
Avoid moisture.

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO₂)
Sodium oxides

11. Toxicological information

11.1. Information on toxicological effects

Component: sodium carbonate		CAS-No.
		497-19-8
Acute toxicity		
Oral		
Value type	:	LD50
Value	:	2,800 mg/kg
Species	:	rat
Inhalation		
Value type	:	LC50
Value	:	2.3 mg/l
Exposure time	:	4 h
Species	:	rat



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Remarks : These literature data deviate from the classification prescribed by the EC.

Dermal

Value type : LD50
Value : > 2,000 mg/kg
Species : rabbit

Irritation

Skin

Species : rabbit
Result : Mild skin irritation
Remarks : May cause skin irritation in susceptible persons.

Eyes

Species : rabbit
Result : Irritating to eyes.

Sensitisation

Remarks : Did not cause sensitization on laboratory animals.

12. Ecological information

12.1. Toxicity

Component: sodium carbonate

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Acute toxicity

Fish

Species : *Lepomis macrochirus*



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Exposure Time : 96 h
Value type : EC50
Value : 300 mg/l

Toxicity to daphnia and other aquatic invertebrates.

Species : Daphnia magna
Exposure time : 96 h
Value type : EC50
Value : 265 mg/l

12.2. Persistence and degradability

Persistence and degradability

Component: sodium carbonate

**CAS-No.
497-19-8**

Persistence and degradability

Biodegradability

Remarks : The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Component: sodium carbonate

**CAS-No.
497-19-8**

Bioaccumulation

Remarks : Does not bioaccumulate.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment



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Component: sodium carbonate	CAS-No. 497-19-8
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Results of PBT and vPvB assessment

Results of PBT assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Product:	CAS-No. 497-19-8
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Additional ecological information

Remarks : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

13. Disposal considerations

13.1. Waste treatment methods

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.



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14. Transport information

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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15.2. Chemical Safety Assessment

Currently we do not have any Information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3.

R36 Irritating to eyes.

Full text of H-Statements referred to under sections 2 and 3.

H319 Causes serious eye irritation.

Further information

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.