

SAFETY DATA SHEET

according to 2012 OSHA Hazard Communication Standard (29CFR 1910.1200) as amended



Sodium carbonate

Creation date	01st February 2024	Version	1
Revision date			

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

Product identifier

Chemical name	Sodium carbonate
	sodium carbonate
CAS number	497-19-8
Index number	011-005-00-2
EC (EINECS) number	207-838-8
Registration number	01-2119485498-19-0000

Recommended use

Medicinal products. Parenteral applications. Food supplement. Ingredient for cosmetics.

Substance uses advised against

Details of the supplier of the safety data sheet

Supplier

Name or trade name	Macco Organiques, s.r.o.
Address	Zahradní 1938/46c, Bruntál 1, 792 01
	Czech Republic
Identification number (CRN)	26819210
VAT Reg No	CZ26819210
Phone	+420 555 530 300
E-mail	macco@macco.cz

Emergency telephone number

CHEMTREC®, Inside the USA: 800-424-9300

CHEMTREC®, Outside the USA: 001-703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture

The substance **is classified as dangerous** by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200).

Eye Irrit. 2, H319 Causes serious eye irritation.

Most serious adverse effects on human health and the environment

Causes serious eye irritation.

Label elements

Hazard pictogram



Signal word

Warning

Dangerous substance

sodium carbonate
(Index: 011-005-00-2; CAS: 497-19-8)

Hazard statements

H319 Causes serious eye irritation.

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Precautionary statements

P264

Wash face, hands and exposed parts of the body thoroughly after handling. Wear protective gloves/eye protection.

P280

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.

Hazards not otherwise classified (HNOC)

Non identified

SECTION 3: Composition/information on ingredients

Identification numbers	Substance name	Content in % weight	Classification according to 29CFR 1910.1200	Note
Index: 011-005-00-2 CAS: 497-19-8 EC: 207-838-8 Registration number: 01-2119485498-19-0000	substance main component sodium carbonate	99-100	Eye Irrit. 2, H319	

SECTION 4: First aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. In the event of unconsciousness, do not provide food by mouth.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance.

Skin contact

Remove contaminated clothes. And wash it before reuse. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. No neutralization should be performed in any case! Provide medical treatment, specialized if possible.

Ingestion

Rinse out the mouth with water and provide 2-5 dL of water. DO NOT INDUCE VOMITING! Provide medical treatment if the person has any health problems.

Most important symptoms and effects, both acute and delayed

Inhalation

May cause respiratory irritation.

Skin contact

Possible irritation.

Eye contact

Causes serious eye irritation.

Ingestion

Irritation, nausea. Nausea, stomach pain, vomiting, diarrhoea.

Notes to Physician

Symptomatic treatment.

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SECTION 5: Firefighting measures

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Water - full jet.

Specific hazards arising from the chemical

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

Protective equipment and precautions for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes. Do not inhale dust. Provide sufficient ventilation.

Environmental precautions

Prevent contamination of the soil and entering surface or ground water. In the event of substantial pollution, contact respective authorities and wastewater treatment plants.

Methods and material for containment and cleaning up

Place the spilled product mechanically in the properly closed containers and dispose of it according to the section 13. Small amount of the product can be wiped out with dry cloth.

Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

sodium carbonate		DNEL			
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	10 mg/m ³	Chronic effects local		
Consumers	Inhalation	5 mg/m ³	Chronic effects local		

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Appropriate engineering controls

Good ventilation, showers, eyewash station

Personal protective equipment

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Respirator. Half-mask with anti-dust filter when the exposition limits of substances are exceeded or in the location with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.

SECTION 9: Physical and chemical properties

Appearance	
Physical state	solid, crystalline
Colour	white
Odour	without fragrance
pH	11.6 (1% solution at 25 °C)
Melting point/freezing point	851 °C
Boiling point or initial boiling point and boiling range	cannot be determined - decomposition occurs
Flash point	not applicable
Evaporation rate	not applicable
Flammability	non-inflammable
Lower and upper explosion limit	not applicable
Vapour pressure	not applicable
vapour density	not applicable
Relative density	2.53
Solubility in water	21.6g / 100g 20°C
Partition coefficient n-octanol/water (log value)	-6.19 (QSAR)
Auto-ignition temperature	not applicable
Decomposition temperature	>400°C
Kinematic viscosity	not applicable
Oxidising properties	It is not oxidising

SECTION 10: Stability and reactivity

Reactivity

The substance is non-flammable.

Chemical stability

The product is stable under normal conditions.

Possibility of hazardous reactions

React violently with acids to evolve CO₂ (foaming).

Conditions to avoid

The product is stable and no degradation occurs under normal use. Humid air. Heat.

Incompatible materials

Strong acids. Aluminum powder.

Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

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SECTION 11: Toxicological information

Acute toxicity

Based on available data the classification criteria are not met.

sodium carbonate						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral (drinking water)	LD ₅₀		2800 mg/kg bw		Rat	F/M
Inhalation (aerosols)	LC ₅₀	OECD 403	2300 mg/m ³ of air	2 hours	Rat	M
Skin	LD ₅₀		>2000 mg/kg bw	24 hours	Rabbit	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

sodium carbonate				
Route of exposure	Result	Method	Exposure time	Species
	Not irritating	OECD 404	4 hours	Rabbit

Serious eye damage/irritation

Causes serious eye irritation.

sodium carbonate				
Route of exposure	Result	Method	Exposure time	Species
Eye	Slightly irritating	OECD 405	72 hours	Rabbit

Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.

Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.
IARC - not listed; NTP - not listed; ACGIH - not listed; OSHA - not listed; Mexico - not listed

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

sodium carbonate						
Route of exposure	Parameter	Result	Value	Exposure time	Species	Sex
Inhalation (aerosols)	NOAEL		>10 mg/m ³ of air		Human	F/M

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Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

Endocrine disruptor information

The substance does not have endocrine disrupting properties.

SECTION 12: Ecological information

Ecotoxicity

Based on available data the classification criteria are not met.

Acute toxicity

sodium carbonate					
Parameter	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	300 mg/l	96 hours	Fish (Lepomis macrochirus)	Fresh water	Survival, Static system
EC ₅₀	200 mg/l	48 hours	Aquatic invertebrates (Ceriodaphnia dubia)	Fresh water	Semi static system, Immobilization
EC ₅₀	800 mg/l	72 hours	Algae and other aquatic plants		

Persistence and degradability

No data available for the substance.

Bioaccumulative potential

No data available for the substance.

Mobility in soil

No data available for the substance.

Other adverse effects

No data available for the substance.

SECTION 13: Disposal considerations

When this product is discarded or disposed of as purchased, it is neither a characteristic nor a listed hazardous waste according to US Federal RCRA regulations (40 CFR 261). As a non-hazardous waste the material may be disposed of in a landfill in accordance with governmental regulations; check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may alter the disposal requirements. Under Federal Regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

SECTION 14: Transport information

UN number or ID number

not subject to transport regulations

UN proper shipping name

not relevant

Transport hazard class(es)

not relevant

Packing group

not relevant

Environmental hazards

not relevant

Special precautions for user

Reference in the Sections 4 to 8.

Maritime transport in bulk according to IMO instruments

not relevant

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SECTION 15: Regulatory information

United States of America Inventory

TSCA (Toxic Substances Control Act)

This product is listed. No other TSCA rules affect this product.

U.S. Federal Regulations

SARA Title III (Superfund Amendments and Reauthorization Act)

SARA 302 Extremely Hazardous Substances, 40CFR355, Appendix A: Not Listed
SARA 311 Hazard Class, 40CFR370: Immediate (Acute)
SARA 312 Threshold Planning Quantity (TPQ), 40CFR370: Not Listed
SARA 313 Reportable Ingredients, 40CFR372: Not Listed

CERCLA (Comprehensive Environmental Response Compensation and Liability Act)

40CFR302.4: There is no listed reportable quantity for this product.

CWA (Clean Water Act), section 301/311:

not Listed

CAA (Clean Air Act), section 112:

not regulated

State Regulations

This product does not contain any components that are regulated under California Proposition 65

Canada



WHMIS Classification: D2B Toxic Class E Corrosive Symbol:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

WHMIS Ingredient Disclosure List:

Listed

DSL Status (Domestic Substances List):

Listed on DSL

EU

EINECS Inventory:

Listed: 207-838-8

Annex I (Substances Directive):

Listed: 011-005-00-2

German Water Classification:

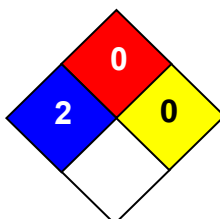
Hazard Class I, low hazard to waters

EU – Food Additives Directive (95/2/EC) Annex I, Generally Permitted for Use in Food: E500

SECTION 16: Other information

NFPA (National Fire Protection Association)

Health	2
Flammability	0
Reactivity	0
Special Hazard	None



4: Extreme, 3: High, 2: Moderate, 1: Slight, 0: Insignificant; OX: Oxidiser, W: Water Reactives, SA: Simple Ashyxiants

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Competent person responsible for the safety data sheet

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Revision Date	---
Revision Summary	---

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

End of SDS