

# Safety Data Sheet

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According to Regulation (EC) No 1907/2006 and (EU) No. 453/2010

Issue date : April 10, 2012

Revision # 1 date : March 20, 2020

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

### 1.1 Product identifier :

Trade name:	<b>Sodium carbonate</b>
Chemical name:	Sodium carbonate anhydrous
Identification number:	CAS No: 497-19-8
Registration number:	01-2119485498-19-xxxx

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

Identified uses:	Pharmaceuticals, parenteral applications, food applications, cosmetic additive
Unrecommended uses:	---

### 1.3 Details of the supplier of the safety data sheet :

#### Macco Organiques, s. r.o.

Zahradní 46c, 792 01 Bruntál, Czech Republic

IČ : 26819210 , phone: +420 – 555 – 530 334

SDS provider's contact: Jaroslav Zavadil , phone: +420 – 555 – 530 340, [jaroslav.zavadil@macco.cz](mailto:jaroslav.zavadil@macco.cz)

### 1.4 Emergency telephone number:

The first aid details may be consulted with toxicological information centre (TIS): Job-related illness clinic, Na Bojišti 1, 128 08 Praha 2, tel. 2 24 91 92 93 or 2 24 91 54 02. Permanent poisoning informations.

## 2: Hazard identification

The substance is classified as dangerous according to Directive 1272/2008/ES.

### 2.1 Classification of the substance or mixture:


Acc. to Directive 1272/2008/ES	Eye Irrit. 2; H319
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#### The most important adverse physicochemical, human health and environmental effects and symptoms :

May be harmful on ingestion. May cause nausea, vomiting, irritation of skin, eyes and respiratory tract.

The information shown on the label shall be given under heading 15.

### 2.2 Label elements :

Hazard pictogram		Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.		
Precautionary statements	P264, P280, P305 + P351 + P338, P 337 + P313 Full version of P sentences is stated in section 15.		
Additional information on label	none		

### 2.3 Other hazards :

Substance is NOT classified as PBT or vPvB.

## 3: Composition / information on ingredients

### 3.1 Substances

#### 3.1.1 Constituent

Chemical identity	Index No.	CAS	EINECS	concentration	classification list number
Sodium carbonate	011-005-00-2	497-19-8	207-838-8	99 – 100%	So far none

#### 3.1.2 Impurities, stabilizers,

Chemical identity	Index No.	CAS	EINECS	concentration	classification list number
none	---	---	---	---	---

### 3.2 Mixtures :

irrelevant

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## **4: First aid measures**

In all cases provide the physical and mental rest and avoid of getting chilled. In case of health problems or doubts inform physician and provide him with the information contained in this safety data sheet. Never pass a medication to a unconscious person. Maintain personal safeness during rescue operation.

### **4.1 Description of first aid measures :**

#### ***If inhaled:***

Stop exposition, move the afflicted person to the fresh air, keep him warm and at rest. If symptoms persist seek medical attention. In case of unconsciousness start with resuscitation (artificial respiration, cardiac massage) and call for medical attention.

#### ***In the event of skin contact:***

Remove contaminated clothes and footwear. Wash of any skin contamination with cool water and soap. Launder clothes before re-use. In case of persisting irritation contact physician .

#### ***In the event of eye contact:***

Remove contact lenses if present. Rinse with a small amount of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention in all cases.

**Do not use neutralization solution!**

#### ***If swallowed:***

Wash out mouth with water and give plenty of water to drink (at least 300 ml). Do not induce vomiting. Seek medical attention. When vomiting, maintain supervision until the help arrives. Obtain medical advice if symptoms persist.

### **4.2 Most important symptoms and effects, both acute and delayed:**

Skin , airways or eye irritation. After consumption of a bigger amount vomiting and diarrhoea, alimentary tract irritation may appear. Symptoms: red skin, eyes, blurred vision.

### **4.3 Indication of any immediate medical attention and special treatment needed:** not available

## **5: Fire fighting measures**

### **5.1 Extinguishing media:**

#### ***Suitable extinguishing media:***

Non-combustible substance . All extinguishing media are allowed, select the appropriate extinguishing media depending on the surrounding fire and environment.

#### ***Not suitable extinguishing media :***

Strong water jet

### **5.2 Specific hazards arising from the substance or mixture::**

Non-combustible substance.

### **5.3 Advice for firefighters:**

No special measures required.

## **6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Use personal safety working clothes – section 8. Prevent from skin and eye contact. Do not inhale dust. Well ventilate areas. Prevent from dust making. Other safety precautions – section 7.

### **6.2 Environmental precautions:**

Prevent from escape to watercourses and soil and from their contamination. If there is no way to avoid it, immediately inform appropriate authority ( police and firemen).

### **6.3 Methods and material for containment and cleaning up:**

Clean up contamination/spillages as soon as they occur. Collect as much as possible in a suitable clean container, preferably for re-use, otherwise for disposal (according section 13). Avoid generation of dust. Wash the spillage area with large quantities of water. When packaging is damaged, replace the amount into a new packaging with proper marking.

### **6.4 References to other sections:**

Also follow the regulations in sections 8 and 13 of this safety data sheet.

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## 7: Handling and storage

### 7.1 Precautions for safe handling:

Use the personal safety tools (section 8). Ensure fresh water for the first aid. Maintain the cleanness and tidiness on the working area. Provide basic employee training to prevent / minimize exposures and to report any health problems that may develop. Do not eat, drink or smoke during work. Avoid contact with skin and eyes. Wash hands duly with soap and water, take a shower. Use a body lotion.

### 7.2 Conditions for safe storage, including any incompatibilities:

Store at a dry place, in original container. Keep container closed. Keep away from incompatible products. Do not store in light-metal containers.

### 7.3 Specific end uses:

No further relevant information available.

## 8: Exposure controls / personal protection

### 8.1 Control parameters

#### 8.1.1 Exposure limits

TWA = 10 mg/m<sup>3</sup>

#### 8.1.2 Biological limit values:

- not specified

#### 8.1.3 DNEL and PNEC values:

- not specified

### 8.2 Exposure control

#### 8.2.1 Occupational exposure control:

Operate in a well-ventilated area, avoid inhalation of dusts or mists (for liquids). Atmospheric levels should be controlled in compliance with the occupational exposure limits. Ensure shower and area for eyes rinsing. The mentioned personal safety instruments should be in compliance with EN standards.

#### Personal protective equipment:

Respiratory protection:	In the case of high dust levels wear suitable respiratory protective equipment, ie. dust mask or respirator conforming to EN standards. Recommended filter = particle filter,P2.
Hand protection:	Wear suitable chemical resistant protective gloves for frequent or prolonged operations tested to EN374 with an acceptable permeation test. Suitable materials include neoprene (chloroprene), PVC and nitrile rubber. Break through time is > 480 min. Contaminated gloves should be carefully rinsed with water before reuse. Non suitable materials: Leather gloves.
Eye / face protection:	Wear suitable eye/face protection. Most materials for protective goggles and face visors will probably be suitable eg. polycarbonate.
Skin and body protection:	Long sleeved clothing, dust impervious protective suit, rubber or plastic boots, rubber or plastic apron.

Do not eat, drink or smoke during work. Immediately remove contaminated clothing. Wash hands duly with soap and water, take a shower. Use a body lotion.

#### 8.2.2 Environmental exposure controls:

Dispose of rinse water in accordance with local and national regulations.

## 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Physical state ( at 20 °C):	Solid – crystals or powder
Colour:	white
Odour (fragrance):	odourless
Threshold odour value:	odourless

### 9.2 Other information:

pH ( at 20 °C):	11,1 (4 g/l solution at 25 °C )
Melting point:	851 °C
Boiling point:	Not applicable
Flash point:	Not applicable, incombustible matter

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<b>Evaporation rate:</b>	Not applicable
<b>Flamability (solid, gas) :</b>	The substance is non-flammable
<b>Explosion limits</b>	lower: Not available, non-explosive matter upper: Not available, non-explosive matter
<b>Vapour pressure:</b>	irrelevant
<b>Vapour density:</b>	irrelevant
<b>Relative density:</b>	2,5 g/cm <sup>3</sup>
<b>Water solubility ( at 20 °C) :</b>	215 g / l
<b>Solubility in solvents:</b>	Not available
<b>Partition coefficient n-octanol/water:</b>	Not available
<b>Self-ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	Not applicable
<b>Viscosity:</b>	Not applicable
<b>Explosive properties:</b>	The substance is non-explosive
<b>Oxidizing properties:</b>	The substance is non-oxidizing
<b>Fat solubility:</b>	Not available
<b>Conductivity:</b>	Not available
<b>Gas group:</b>	Not applicable

## 10: Stability and reactivity

### 10.1 Reactivity:

Decomposition by reaction with strong acids.

### 10.2 Chemical stability:

Stable under recommended storage and handling conditions.

### 10.3 Possibility of hazardous reactions:

Exothermic reaction with acids.

### 10.4 Conditions to avoid:

Heat and moisture.

### 10.5 Incompatible materials :

Finely divided aluminium

### 10.6 Hazardous decomposition products:

None at normal use.

## 11: Toxicological information

### 11.1 Information on toxicological effects:

<b>Acute toxicity:</b>	
- LD <sub>50</sub> oral, rat (mg.kg <sup>-1</sup> ):	> 2000
- LD <sub>50</sub> dermal, rabbit (mg.kg <sup>-1</sup> ):	2000
- LC <sub>50</sub> , 2 hrs, inhalation, rat, for aerosols or particles (mg.l <sup>-1</sup> ):	3,2
<b>Skin irritation:</b>	No irritation
<b>Eye irritation:</b>	Eye irritation, Eye irrit. cat. 2
<b>Chronic toxicity:</b>	Inhalation, rat, Target organs : Lungs, NOEL : 0,07 mg/l, observed effect
<b>Carcinogenicity:</b>	Not available data
<b>Mutagenicity:</b>	Not available data
<b>Teratogenicity :</b>	Oral route (gavage), 10 days, various species, 179 mg/kg. Did not show teratogenic effect in animal experiments.
<b>Toxicity for reproduction:</b>	Not available data
<b>Toxicity for specific target body – single exposition</b>	Not available data
<b>Toxicity for specific target body – repeated exposition:</b>	Not available data
<b>Main effect :</b>	Risk of serious damage to eyes. Irritating to skin and mucous membranes.

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<b>Inhalation :</b>	Product dust may be irritating to eyes, skin and respiratory system. Irritating to mucous membranes. Repeated or prolonged exposure : Risk of sore throat, nose bleeds.
<b>Eye contact :</b>	Severe eye irritation, Lachrymation, Redness, Swelling of tissue, May cause irreversible eye damage.
<b>Skin contact :</b>	When in contact with damp skin, irritation. <i>Tching. Repeated exposure may cause skin drenchess or cracking.</i>
<b>Ingestion :</b>	Severe irritation, Irritation of the mouth and throat. Ingestion may cause gastrointensinal irritation, nausea, vomiting and diarrhea.
<b>Other information:</b> none	

## 12: Ecological information

### 12.1 Toxicity:

- LC <sub>50</sub> 96 hr., fish (mg.l <sup>-1</sup> ):	300 Sunfish (Lepomis macrochirus), 740 (Gambusia affinis)
- EC <sub>50</sub> 48 hr., daphnia (mg.l <sup>-1</sup> ):	200 – 227 (Ceriodaphnia dubia)
- EC <sub>50</sub> 72 hr. algae (mg.l <sup>-1</sup> ):	Not available

**12.2 Persistence and degradability:** Not specified (not relevant for inorganic substances)

**12.3 Bioaccumulative potential:** Not specified

**12.4 Mobility in soil :** Not specified

**12.5 Results of PBT assessment:** Substance is not classified as PBT or vPvB.

### 12.6 Other adverse effects:

Ecological injuries are not known or expected under normal use.

## 13: Disposal considerations

### 13.1 Waste treatment methods:

If recycling or reuse is not practical then the product must be disposed of by authorized personnel in accordance with local, state or national regulations. Never dispose by flushing into the drainage! Waste former is responsible for its sorting and disposal.

### Special safety precaution for recommended waste treatment:

Preferably dispose in independent container. Neutralise with acids in accordance with local and national regulations.

### Packaging:

If recycling or reuse is not practical then packaging must be disposed of by authorized personnel in accordance with local, state or national regulations. Clean packaging with water and dispose of washings in accordance to local regulations. Packaging can be passed to a packaging return system after the cleaning.

### Legal waste regulations:

Directive 2008/98/ES

National or regional provisions may be in force !

## 14: Transport information

<b>14.1 UN number</b>	Not applicable (not classified as hazardous for transportation)
<b>14.2 UN proper shipping name</b>	Not applicable (not classified as hazardous for transportation)
<b>14.3 Transport hazard class(es)</b>	Not applicable (not classified as hazardous for transportation)
<b>14.4 Packing group</b>	Not applicable (not classified as hazardous for transportation)
<b>14.5. Environmental hazards</b>	Not applicable (not classified as hazardous for transportation)
<b>14.6. Special precautions for user</b>	Not applicable (not classified as hazardous for transportation)
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable (not classified as hazardous for transportation)

## 15: Regulatory Information

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



Warning

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H 319	Causes serious eye irritation.
P 264	Wash ... thoroughly after handling.
P 280	Wear protective gloves/protective clothing/eye protection/face 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.
P337 + P 313	If eye irritation persists: Get medical advice/attention.

## 15.2 Chemical Safety Assessment:

Chemical safety Report (CSR) has been carried out for the substance.

### National legislation:

Regulation (EC) No. 1907 / 2006 / ES, REACH

Regulation (EC) No. 1272 / 2008 / ES, CLP

**National laws or provisions may be in force !**

## 16: Other information

### Changes made in Safety Data Sheet in terms of revision:

Revision of Safety data sheet in terms of avoidance of Directive 67/548/EHS.

### Key or explanation for abbreviations:

Eye Irrit. 2	Serious damage of eye/eye irritations, category 2
DNEL	Derived No Effect Level (derived concentration of substance, at which no unfavourable effects occur )
PNEC	Predicted No Effect Concentration (prediction of substance concentration, at which no unfavourable effects occur )
PEL	Acceptable exposure limit, long-term (8 hours)

### Important literature references and data sources:

SDS of other producers, special literature, ECHA web. site <http://apps.echa.europa.eu/registered/registered-sub.aspx> )

### Training instructions:

According to Safety Data Sheet.

### Recommended restrictions of use:

Not specified

### Other :

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