

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 25.08.2007

Revision: 25.08.2007

1 Identification of substance:

· **Product details:**

· **Trade name:** Sodium Carbonate Anhydrous

· **Article number:** 156005

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

Chemicals for synthesis

Laboratory chemicals

· **Manufacturer/Supplier:**

Mallinckrodt Baker B.V

P.O.Box 1

7400 AA Deventer

The Netherlands

· **Informing department:**

Quality Systems & Regulatory Affairs

E-mail : sjors.duteweert@covidien.com

· **Emergency information:**

Environment Health & Safety department

during normal opening times (8 am till 5.30 pm) tel: (+31)(0) 570 687500

Tel(+31)(0) 570-687500

Fax(+31)(0) 570-687574

E-mail : jtbaker.nl@covidien.com

2 Hazards identification

· **Hazard designation:**



Xi Irritant

· **Information pertaining to particular dangers for man and environment**

R 36 Irritating to eyes.

3 Composition/information on ingredients

· **Chemical characterization:**

· **CAS No. Designation:**

497-19-8 Sodium Carbonate Anhydrous

· **Identification number(s):**

· **EINECS Number:** 207-838-8

· **EC Number:** 011-005-00-2

4 First aid measures

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

· **After skin contact** The product is not skin irritating.

· **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

Induce vomiting and call for medical help.

5 Fire fighting measures

· **Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

(Contd. on page 2)

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(Contd. of page 1)

· **Protective equipment:** Wear full protective suit.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Collect mechanically.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:** no special requirements
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
This product is hygroscopic.
Keep container tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
Filter P2.
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
Neoprene gloves
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**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.

(Contd. on page 3)

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(Contd. of page 2)

· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**

Form: Crystalline powder
Colour: White
Smell: Odourless

· **Change in condition**

Melting point/Melting range: 854°C
Boiling point/Boiling range: Not determined
· **Flash point:** n/a

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

· **Danger of explosion:** Product is not explosive.

· **Density at 20°C** 2.533 g/cm³

· **Settled apparent density at 20°C** 500-600 kg/m³

· **Solubility in / Miscibility with**

Water at 20°C: 212 g/l

· **pH-value (100 g/l) at 20°C:** 11.5

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** Heat,boiling teperatures.

· **Materials to be avoided:**

alkalis, aluminium, strong oxidizing agents, sulfuric acid, nonmetallic oxides, organic nitro compounds, metal catalysts, phosphorus oxides, hydrogen peroxide.

· **Dangerous reactions** No dangerous reactions known

· **Dangerous products of composition:** No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	4090 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/2h	2.3 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** Irritant effect.

· **Sensitization:** No sensitizing effect known.

12 Ecological information:

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

EC50/48h	200-227 mg/l (Ceriodaphnia dubia)
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(Contd. on page 4)

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(Contd. of page 3)

LC50/96h	740 mg/l (Mosquitofish (<i>Gambusia affinis</i>)) 300 mg/l (Bluegill, Sunfish (<i>Lepomis macrochirus</i>))
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General notes:

*Water hazard class (D) 1 (Assessment by list): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.*

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- **ADR/RID-GGVS/E Class:** *not regulated*

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- **Code letter and hazard designation of product:**
Xi Irritant
- **Risk phrases:**
36 Irritating to eyes.
- **Safety phrases:**
*22 Do not breathe dust.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

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.*
- **Department issuing data specification sheet:** *Quality Assurance Department*
 - **Contact:** *Sjors duteweert*
 - *** Data compared to the previous version altered.**