



# Chemifloc Ltd.

## SAFETY DATA SHEET Sodium Carbonate

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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

#### Identification of the substance or preparation

**Product Name:** Soda Ash,  
**Chemical Name:** Sodium Carbonate  
**Use of the preparation:**

Used as a chemical for the treatment of drinking water, has received appropriate approval by the European Committee for Standardisation.

#### Company/Undertaking identification

**Supplier:** Chemifloc Ltd  
Smithstown, Shannon,  
Co. Clare,  
Rep. of Ireland.  
Tel: 00353 61 708699  
Fax: 00353 61 708698  
e-mail: [info@chemifloc.ie](mailto:info@chemifloc.ie)

**Emergency Telephone Number: 00353 61 708699**

### 2: Hazards Identification

Sodium Carbonate is classed as an **Irritant**. This substance is not classified in the Annex I of Directive 67/548/EEC.

Risk of damage to eyes.

NOTE Annex I of the Directive 67/548/EEC on classification, packaging and labelling of dangerous substances and its amendments and adaptations in the European Union contains a list of substances classified by the EU. Substances not in this annex I should be classified on the basis of their intrinsic properties according to the criteria in the Directive by the person responsible for the marketing of the substance.

### 3: Composition/Information on Ingredients

Ingredient Name	CAS Number	%	EC Number	Classification	Risk Phrases
Sodium Carbonate	497-19-8	99.0 min	207-838-8	Xi	R36

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

## 4: First Aid Measures

### General

- In all cases of doubt, or when symptoms persist, seek medical attention.

### Inhalation

- Remove to fresh air, keep warm and at rest.

### Skin Contact

- Remove contaminated clothing
- Wash skin with plenty of water
- Launder clothes before re-use

### Eye Contact

- Irrigate eye thoroughly with eye wash solution or clean water for at least 10 minutes.
- Eyelids should be held away from the eyeball to ensure thorough rinsing.
- Obtain medical attention if necessary.

### Ingestion

- DO NOT induce vomiting
- Wash out mouth with water and give plenty of water to drink (at least 300 ml.)
- Obtain medical advice if necessary.

## 5: Fire-Fighting Measures

### Flash Point

- Not applicable

### Extinguishing Media

- All extinguishing products are allowed

### Special Hazards

- Non-combustible

### Hazardous Decomposition Products (under fire conditions)

- Not applicable

## 6: Accidental, Release Measures

### Personal Precautions

- See personal protection measures given in Section 8

### Environmental Precautions

- Prevent discharges into the environment (rivers, water courses, sewers etc.)
- See Section 13 for disposal details

### Methods for clean up

- Clear up spillages by suitable means avoiding dust formation
- Collect as much as possible in a suitable clean container, preferably for re-use, otherwise for disposal.
- Wash the spillage area with large quantities of water.

## 7: Handling and Storage

### Handling

- Avoid dust formation
- Operate in a well ventilated area, atmospheric levels should be controlled in compliance with the occupational exposure standard
- Do not breathe dust
- Avoid contact with skin and eyes

### Storage

- Store in a cool dry place (in humid conditions the product will absorb moisture from the atmosphere and this will eventually cause caking and loss of free flowing properties)
- Do not store together with acids

#### **Fire and Explosion Prevention**

- Non-combustible

### **8: Exposure Controls/Personal Protection**

#### **Engineering Controls**

- Provide adequate ventilation
- Avoid inhalation of dusts

#### **Occupational Exposure Limits**

- Not listed by H&SE (Guidance Note EH40) or ACGIH (Ref.UK EH40 – Limits for Nuisance Dust) Recommended Limits: OES 10mg/m<sup>3</sup> (total dust) (8hr TWA) 5mg/m<sup>3</sup> (respirable dust) (8hr TWA)

#### **Respiratory Protection**

- In the case of high dust levels wear suitable respiratory protective equipment, i.e. dust mask or respirator

#### **Hand Protection**

- Wear suitable chemical resistant protective gloves for frequent or prolonged operations

#### **Eye Protection**

- Suitable eye/face protection

#### **Skin and Body Protection**

- Protective clothing is required, overalls as a minimum

### **9: Physical and Chemical Properties**

#### General information

Appearance	White Powder, Granules
Odour	Odourless
Molecular Formula	Na <sub>2</sub> CO <sub>3</sub> .
Important health, safety and environmental information	
pH	11.4 (1% w/w soln @20°C)
Melting point	851°C
Specific Gravity	2,53 g/cm <sup>3</sup> .
Vapour pressure	Not applicable
Bulk Density	Light ash approx. 550kg/m <sup>3</sup>
Solubility in water	71 g/l @ 0° C 471 g/l @ 32° C
Viscosity	Not applicable
Specific Heat	1,043 J/(kg K).
Flammability	Non flammable

### **10: Stability and Reactivity**

#### **Stability**

- Stable under recommended storage and handling conditions (see Section 7)

#### **Conditions to avoid**

- Contact with acids unless under controlled conditions
- Contact with lime and moisture produces caustic soda
- Humidity and moisture can cause caking of product

#### **Materials to avoid**

- Aluminium and zinc

- Fluorine
- Sulphuric and other acids
- Lithium
- Phosphorus pentoxide

**Hazardous decomposition products**

- Negligible, carbon dioxide gas can be emitted
- Carbon dioxide is liberated on reaction with acids

**11: Toxicological Information**

**Acute Toxicity**

- Oral LD 50, rat : 4090 mg/kg.
- Sodium carbonate is a permitted food additive, however in large doses corrosion of the mucous membranes of the gastrointestinal tract may occur.
- Inhalation LC 50, rat : 2300 mg/m<sup>3</sup>/2hr.
- High concentrations of dust may irritate the nasal membranes and respiratory tract.

**Eye Irritation**

- Irritating to eyes
- May cause corneal damage, permanent damage is unlikely.

**Skin Irritation**

- May cause irritation
- Repeated and / or prolonged contact will remove natural grease resulting in dryness and cracking

**Long Term Exposure**

- Prolonged or repeated inhalation of high dust concentrations may cause ulceration of the nasal septum, which may in time progress to perforation or complete destruction of the nasal cartilage.

**Other Toxicological Information**

- Not teratogenic

**12: Ecological Information**

**Acute Ecotoxicity**

- Fish, *Lepomis macrochirus* : 96hr - LC50 : 300mg/l
- *Daphnia magna* : 48hr - EC50 : 265mg/l
- Algae, *Nitzschia linearis* : 5 day - EC50 : 242mg/l

**Biodegradability**

- Aerobic/Anaerobic degradation : Not applicable ( inorganic compound )

**13: Disposal Considerations**

**Product**

- Must be disposed in accordance with local, state or national regulations
- Do not dispose of with acids

**Packaging**

- Must be disposed in accordance with local, state or national regulations • Contact the manufacturer about recycling

**14: Transport Information**

Sodium carbonate is not listed under a UN Number. Sodium carbonate is not classified as a dangerous product for road, rail, sea and air transportation.

## 15: Regulatory Information

Sodium Carbonate is classed as an **Irritant** for supply, and packaging will carry the following information:

EU Regulations:

Hazard Symbol or symbols:	Xi : Irritant
Risk Phrase:	R36: Irritating to eyes.
Safety Phrases:	S 22: Do not breathe dust. S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Contains EINECS number:	207-838-8

## 16: Other Information

References: Sodium Carbonate is used as a chemical for the treatment of drinking water, as approved by the European Committee for Standardisation under EN 897:2005. The Transport and Regulatory Information given are in accordance with EN 897:2005.

History: This data sheet was prepared in accordance with EC Regulation No. 1907/2006 concerning REACH.  
This version replaces Version 2, Jan 2009.

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Revision: 3.

### Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Chemifloc Ltd disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Safety Data Sheet.