



SAFETY DATA SHEET

99.5 %

SODIUM CARBONATE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Product name:	Sodium Carbonate
Product No.:	SOCA
CAS-No.:	497-19-8
Index No.:	011-005-00-2
EC No.:	207-838-8
REACH:	01-2119485498-19
Synonym:	Soda ASH, Washing soda, Soda crystals, Sodium trioxocarbonate
Chemical Formula:	NA_2CO_3

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Recommended use: Laboratory chemicals, manufacture of substances, Scientific R&D

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

HD Chemicals LTD
UNIT 9 Scott Business Park
PL2 2PB Plymouth UK

Contact Person responsible for SDS: Mr Peter Konefal, e-mail: contact@hdchemicals.co.uk

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification 67/548/EEC: Xi; R36 Eye Irrit. 2 Irritant Xi; R38 Skin Irrit. 2 Irritant R52/53

Classification – EC 1272/2008: H319



2.2. LABEL ELEMENTS



SIGNAL WORDS

Warning

RISK PHRASES

- | | |
|--------|--|
| R36 | Irritating to eyes |
| R38 | Irritating to skin |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |

HAZARD PHRASES

- | | |
|------|-------------------------------|
| H319 | Causes serious eye irritation |
|------|-------------------------------|

PROTECTION PHRASES

- | | |
|----------------|---|
| P264 | Wash after handling |
| P280 | Wear eye 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+P313 | If eye irritation persists: Get medical advice/ attention |

SAFETY PHRASES

- | | |
|-----|--|
| S2 | Keep out of the reach of children |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice |
| S28 | After contact with skin, wash immediately with plenty of water |

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

67/548/EEC/1999/45/EC

Composition information – main constituents

Substance name	Mol. Formula	Index No.	Typical conc. (%w/w)	EINECS No.	CAS-No.	Classification
Sodium Carbonate	NA ₂ CO ₃	011-005-00-2	≥99.5%	207-838-8	497-19-8	H319

EC 1272/2008

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Sodium Carbonate	NA ₂ CO ₃	011-005-00-2	≥99.5%	207-838-8	497-19-8	Xi; R36 Eye Irrit. 2 Irritant Xi; R38 Skin Irrit. 2 Irritant R52- 53 Aquatic Chronic

SECTION 4: FIRST AID MEASURES**4.1. DESCRIPTION OF FIRST AID MEASURES**

First-aid measures general: If you feel unwell, seek medical advice (show the label where possible)

Inhalation: Move the exposed person to fresh air. If breathing stops, provide artificial respiration.

Ingestion: DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Give plenty of water to drink and give milk of magnesia. Keep warm and quiet. Seek medical attention

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash off immediately with plenty of soap and water. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Seek medical attention if irritation or symptoms persist.

Eye contact: Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.



4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion:	Harmful if swallowed.
Skin contact:	Irritation or pain may occur at the site of contact.
Eye contact:	There may be irritation and pain.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No unsuitable extinguishing media known.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Not combustible. Ambient fire may liberate hazardous vapours: carbon oxides, sodium oxides.

5.3. ADVICE FOR FIRE-FIGHTERS

Wear suitable respiratory equipment when necessary. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable protective clothing. Avoid breathing vapours, mist or gas. Avoid formation of dust. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area.

6.2. ENVIRONMENTAL PRECAUTIONS

Prevent further spillage if safe. Do not allow product to enter drains.



6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust. Ensure adequate ventilation of the working area.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a cool, dry area. Keep container tightly closed.

7.3. SPECIFIC END USE(S)

See section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS/EXPOSURE GUIDELINES

Occupational Exposure Limit Values (Sodium Carbonate):

Type	Exposure	Value	Population	Effect
DNEL	Oral	N/A	Consumers	N/A
DNEL	Inhalation	N/A	Consumers	N/A
DNEL	Inhalation	N/A	Workers	N/A

Engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working area.

Protective equipment:





- Respiratory equipment:** Where risk assessment shows it is necessary, use a dust mask type or breathing apparatus.
- Skin and body protection:** Wear suitable protective clothing and gloves.
- Eye/Face protection:** Approved safety glasses. Face shield where appropriate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid
Colour:	White
Odour:	Odourless
Initial boiling point (°C):	Not available
Melting point (°C):	851 °C
Freezing point:	No data available
Relative density:	2.532 g/cm ³
Specific gravity / density:	Not available
Vapour density:	Not available
Vapour pressure:	Not available
Flash point (°C):	Not applicable.
Molecular mass:	105.99 g/mol
Auto-ignition temperature:	Not applicable
Oxidizing properties :	Not available
Decomposition temperature:	Not available
Molecular formula:	Na ₂ CO ₃

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

Sodium Carbonate is stable under normal conditions of use, storage and transport.

10.2. CHEMICAL STABILITY

Stable under normal conditions.



10.3. POSSIBILITY OF HAZARDOUS REACTIONS

When heated can decompose. May liberate toxic gases.

10.4. CONDITIONS TO AVOID

Avoid air, moisture, direct sunlight, extremely high or low temperatures.

10.5. INCOMPATIBLE MATERIALS

Keep away from strong oxidising agents, acids, bases, fluorine, aluminium.

10.6. HAZARDOUS DECOMPOSITION

Product is non-combustible, but thermal decomposition can lead to release of irritating gases and vapours: carbon oxides, sodium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

TOXIC DOSE 1- LD50 **4090 mg/kg (Oral Rat)**

Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion:	Harmful if swallowed.
Skin contact:	Irritation or pain may occur at the site of contact.
Eye contact:	There may be irritation and pain.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Aquatic Toxicity: LC50 Bluegill sunfish: 300-320 mg/l – 96hr
EC50 Daphnia magna: 265 (Water flea) mg/l – 48hr

12.2. PERSISTENCE AND DEGRADABILITY

There are no data on the degradability of this product.

**12.3. BIOACCUMULATIVE POTENTIAL**

No data available for this product.

12.4. MOBILITY

No data available.

12.5. RESULTS OF PBT AND VPVB ASSESSMENT

No data available.

12.6. OTHER ADVERSE EFFECTS

Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal recommendations: Dispose of in compliance with all local and national regulations. Contact a licensed waste disposal company. Dispose of this material and its container to hazardous or special waste collection point. Do not allow to reach ground water or bodies of water. May not be led undiluted into sewer systems.

Recommendation: After neutralising with lime (calcium carbonate) the product can be discharged into the sewer system. Local regulations must be observed.

Uncleaned packaging: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION**IMDG/IMO**

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

ADR/RID

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

**IATA**

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

SECTION 15: REGULATORY INFORMATION**SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

SECTION 16: OTHER INFORMATION**General information**

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instruction. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

Revision Comments

This information is provided in a revised format to that previously produced.

Revision Date: 01/10/2018

Revision: 01

Safety Data Sheet Status Approved.

Date printed 01/10/2018

Signature Initials P.K.

DISCLAIMER:

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the



product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

NOTE:

The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act,1974;the control of Substances Hazardous to Health Regulations,1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.