

SAFETY DATA SHEET

Date of Issue: 14/06/2016

Issue No 2

Last revision: June 2016

File F:\msdsother\MSDS original\SodiumCarbonate - GHS.docx

1. PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL**Product Identifier: SODIUM CARBONATE – SODA ASH****Other Means of Identification:**

CAS No.: 497-19-8 (anhydrous); 6132-02-1 (decahydrate)

EC No: 207-838-8

Index No: 011-005-00-2

Molecular Weight: 105.99

Chemical Formula: Na₂CO₃

Chemical names: sodium carbonate; Carbonic acid, disodium salt (AICS name); disodium carbonate

Proper shipping name (ADG): Not applicable

SUSMP name: Poison Schedule 5 (Alkaline salts)

Other names or synonyms: Soda ash

Product Code: D0038

Recommended use of the chemical and restrictions on use: Fertilizers, soaps, detergents. No restrictions.**Supplier Details****PERTH:**

Environex International Pty Ltd;

19 Motivation Drive

Wangara WA 6065

EMAIL: sales@environex.net.au

ABN: 371 5988 7117

FAX: (08) 9302 5000

TEL: (08) 9302 4000

BUNBURY:

Environex International Pty Ltd;

18 Halifax Drive,

Bunbury WA 6230

CONTACT POINT - Chemist - TELEPHONE (08) 9302 4000

EMERGENCY TELEPHONE NUMBER: A/H +61 407 994 198 or Toll Free 1800 999 196

2. HAZARD IDENTIFICATION**Emergency overview:** May cause eye burns. Harmful if swallowed or inhaled. Causes irritation to skin and respiratory tract.**Classification of the hazardous chemical**

Classified as hazardous according to criteria of ASCC but not classified as a dangerous good according to the ADG code.

Classification under the Globally Harmonised System of Classification and Labelling of Chemicals 4th Revised Edition:

Eye damage - category 1, H318

Specific target organ toxicity (single exposure) - category 3, H335

Label elements according to the National model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015):**Hazard pictograms:**

Exclamation Mark (GHS07) Corrosion (GHS05)

Signal word: DANGER**Hazard statements:**

H318 Causes serious eye damage.

H335 May cause respiratory irritation

SAFETY DATA SHEET

Date of Issue: 14/06/2016

Issue No 2

Last revision: June 2016

File F:\msdsother\MSDS original\SodiumCarbonate - GHS.docx

Precautionary statements:

P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.

P264 Wash ...thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/face protection.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/attention

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with local/regional/ national/international Regulations

Other hazards which do not result in classification**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<i>Substance Name</i>	<i>Concentration, %</i>	<i>Product Identifier</i>	<i>Hazard Classes and Hazard Categories</i>
Sodium Carbonate	>99	CAS No. 497-19-8 EC No. 207-838-8	Eye Dam. 1, H318 STOT SE 3, H335

Ingredients either below cut off levels or not classified in "Implementing GHS – Annex 9"

<i>Substance Name</i>	<i>Concentration, %</i>	<i>Product Identifier</i>	<i>Hazard Classes and Hazard Categories</i>
-----------------------	-------------------------	---------------------------	---

4. FIRST AID MEASURES**Description of necessary first aid measures**

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention

Skin Wash contaminated areas thoroughly with plenty of soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse and discard footwear which cannot be decontaminated. Seek medical attention if irritation occurs/persists.

Ingestion: If swallowed DO NOT induce vomiting. If vomiting occurs spontaneously, seek medical attention immediately.

Inhalation: Get person out of contaminated area to fresh air. Seek medical attention..

Symptoms caused by exposure:

Skin contact: Irritation may occur.

Eye contact: Redness or irritation may occur.

Ingestion: May cause coughing.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing.

Medical Attention and Special Treatment: Treat symptomatically and supportively**5. FIRE FIGHTING MEASURES****Suitable Extinguishing Media:** Use agent most appropriate to extinguish surrounding**Specific hazards arising from the chemical**

SAFETY DATA SHEET

Date of Issue: 14/06/2016

Issue No 2

Last revision: June 2016

File F:\msdsother\MSDS original\SodiumCarbonate - GHS.docx

Fire: none.

Explosion: Not an explosion hazard.

Hazchem Code: Not applicable

Special protective equipment and precautions for fire fighters

No special precautions required

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: For non-emergency personnel: Keep dust levels to a minimum.

For emergency responders: In the event of accidental release of bulk solid wear suitable gloves and eye/face protection. Use vacuum suction or shovel into containers for re-use or disposal according to local legislation. The affected area can be cleaned with plenty of water.

Environmental precautions: Prevent uncontrolled discharges into the environment.

Methods and materials for containment and cleaning up: See above.

7. HANDLING AND STORAGE

Precautions for safe handling: Always follow good personal hygiene when working with this product. Wash promptly with soap and water if skin becomes contaminated. Do not breathe dust. Avoid contact with skin and eyes. Keep dust levels to a minimum. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities: Store in a cool well-ventilated place in the original closed containers. Avoid contact with acids and finely divided aluminium, zinc, tin and their alloys. In open containers, the product may gain and lose water of crystallisation. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters – exposure standards, biological monitoring**

HSIS Airborne Exposure Limits: : None established. Respirable dust 10 mg/m³; Inspirable dust 3 mg/m³. Manufacturer recommendation 5 mg/m³ for 8hr TWA. Other Exposure limits (WEL) 10mg/m³ total dust; 5mg/m³ respirable dust

Appropriate engineering controls: Provide adequate general ventilation. Provide appropriate exhaust ventilation at places where dust is formed. Apply technical measures to comply with the occupational exposure limits

Personal protective equipment (PPE)

Eyes: Wear eye/face protection rated to protect eyes against dust (EN166) e.g. safety eye shields with dust protection, goggles or face visor

Skin: Dust impervious protective suit rubber or plastic boots where appropriate. Gloves are recommended for people with sensitive or damaged skin. Avoid prolonged contact with skin. Rinse hands after use..

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respiratory Protection (AS/NZS 1715/1716 Approved): Respiratory protection In the case of high dust levels wear suitable respiratory protective equipment e.g. dust mask or respirator, that conform international standard, EN143. Recommended filter type P2.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: fine white crystals

Odour: Odourless

Odour threshold: Not available

SAFETY DATA SHEET

Date of Issue: 14/06/2016

Issue No 2

Last revision: June 2016

File F:\msdsother\MSDS original\SodiumCarbonate - GHS.docx

pH(1%): 11.6**Melting point:** 851 °C**Initial boiling point and boiling range:** decomposes**Flash point:** not applicable**Evaporation rate:** not applicable**Flammability (solid, gas) :** does not ignite**Upper/lower flammability or explosive limits:** Not available**Vapour pressure:** Not available**Vapour density:** Not available**Specific Gravity:** (pouring density): (Bulk density Powder Light: 0.5 – 0.65 kg/m³; Heavy 1.05 kg/m³. Specific Gravity: 2.53**Solubility:** 220 g/L @ 22°C; 45.5g/100 ml water @ 100°C**Partition coefficient: n-octanol/water:** Log Pow: ca. 0**Auto-ignition temperature:** Not available**Decomposition temperature:** Not available**Viscosity:** Not available**10. STABILITY AND REACTIVITY****Reactivity:** Reaction with strong acids causes evolution of carbon dioxide.**Chemical Stability:** Hygroscopic. Readily absorbs moisture from the air. Solutions are strong bases..**Possibility of Hazardous Reactions:** Liberates carbon dioxide when mixed with acid. Solutions may react with new surfaces of aluminium and zinc and their alloys to produce hydrogen.**Conditions to Avoid:** Excess heat.**Incompatible materials and possible hazardous reactions:** Acids, aluminium and zinc.**Hazardous Decomposition Products:** none.**11. TOXICOLOGICAL INFORMATION****Acute toxicity:** Sodium Carbonate: Oral rat LD50: 4090 mg/kg; inhalation rat LC50: 2300 mg/m³/2H; irritation eye rabbit: 50 mg severe; investigated as a mutagen, reproductive effector.**Health Effects****Skin:** May cause skin irritation resulting from removal of natural greases.**Eye:** Irritating to the eyes. May cause corneal damage in severe circumstances.**Ingestion:** May result in a burning sensation in the mouth and throat, inability to swallow, and irritation of the gastro-intestinal tract with nausea and vomiting.**Inhalation:** High concentrations of dust will irritate the respiratory system.**Chronic:** no data**Respiratory or skin sensitisation:** Not sensitising**Germ cell mutagenicity:** Not available**Carcinogenicity:** Not available**Reproductive toxicity:** Not available**Specific Target Organ Toxicity (STOT) – single exposure:** STOT SE Cat 3 (respiration)**Specific Target Organ Toxicity (STOT) – repeated exposure:** Not available**Aspiration hazard:** Not available**Information on Possible routes of exposure:** Ingestion, Inhalation, Skin/ eye exposure.**Delayed Health Effects from Exposure:** Not available**Interactive Effects:** Not available**Mixtures of Chemicals:**

SAFETY DATA SHEET

Date of Issue: 14/06/2016

Issue No 2

Last revision: June 2016

File F:\msdsother\MSDS original\SodiumCarbonate - GHS.docx

12. ECOLOGICAL INFORMATION**Ecotoxicity:** No specific information available**Persistence and degradability:** Not applicable.**Bioaccumulative potential:** No bioaccumulation expected**Mobility in soil:** Readily absorbed into soil**Other adverse effects:** Based on bulk product: High concentrations in receiving waters can cause long term adverse effects on the aquatic environment by raising pH. Low toxicity to fish. No environmental hazard is likely provided the product is handled and disposed of with due care in accordance with normal household practice on following the instructions on the label**13. DISPOSAL CONSIDERATIONS****Disposal methods** Small quantities may be washed away using plenty of water. Dispose of contents by using as per directions for use. Rinse empty container and recycle where possible**Disposal of any contaminated packaging:** Dispose of container and unused contents in accordance with federal, state and local requirements..**Effects of sewage disposal:** No data**14. TRANSPORT INFORMATION****Australian DG Classification for Road and Rail:** Not regulated for transport**Environmental hazards for Transport Purposes:** Not a marine pollutant**Special precautions during transport:** None**Hazchem Code:** not applicable**15. REGULATORY INFORMATION****Safety, Health and Environmental Regulations****Australian Inventory of Chemical Substances:** Present on AICS**HSIS (Safe Work Australia) Labelling:** Hazard Category: Xi Irritant. Risk Statement: R36 Irritating to eyes. Safety Statement: S2 Keep out of the reach of children. S22 Do not breathe dust. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**SUSMP Labelling:** S5 Caution. **SAFETY DIRECTIONS:** Strongly alkaline. Avoid contact with skin and eyes. **FIRST AID INSTRUCTIONS:** For advice, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor (at once). If swallowed, do NOT induce vomiting. If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water**16. OTHER INFORMATION****Date of preparation or review:****Key abbreviations or acronyms used:****End of SDS**