

# Safety Data Sheet

according to WHS Regulations

Printing date 01.02.2017

Revision: 01.02.2017

## 1 Identification

**Product Name: Dry Alkali (Soda Ash)****Other Means of Identification:****Other Name:**

Soda Ash, Calcined Soda, Carbonic Acid, Disodium Salt, Disodium Carbonate, Bisodium Carbonate, Sodium Carbonate

**Recommended Use of the Chemical and Restriction on Use:**

Water treatment, cleaning preparations, food additive and manufacture of glass, chemicals, paper and soaps.

**Details of Manufacturer or Importer:**Canning Laboratories Pty. Ltd  
Unit 4 / 213 Railway Avenue  
Kelmscott WA 6111**Phone Number:** (08) 9390 7040**Emergency telephone number:** 0410467404 (A/H)

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



STOT SE 3

H335 May cause respiratory irritation.

**Signal Word** Danger**Hazard Statements**

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

**Precautionary Statements**

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

P280 Wear eye protection / face protection.

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

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

P310 Immediately call a POISON CENTER/doctor.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P405 Store locked up.

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

P501 Dispose of contents/container in accordance with local/regional/national regulations.

(Contd. on page 2)

# Safety Data Sheet

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Product Name: Dry Alkali (Soda Ash)

(Contd. of page 1)

## 3 Composition and Information on Ingredients

### Chemical Characterisation: Substances

#### CAS No. Description

497-19-8 Sodium carbonate 100%

## 4 First Aid Measures

### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

### Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap for at least 15 minutes. Seek medical attention if symptoms occur.

### Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

### Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek immediate medical attention.

### Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation, coughing and breathing difficulty. Excessive exposure may cause damage to the nasal septum.

Skin Contact: May cause skin irritation. Product is mildly alkaline and may cause redness, blistering and possible skin burns.

Eye Contact: Causes serious eye damage. May cause corneal damage and conjunctival oedema. Risk of injury increases if eyes are kept closed.

Ingestion: May cause gastrointestinal irritation. Concentrated solutions are corrosive and may cause cramps, vomiting and diarrhoea. Extreme cases may cause circulatory collapse and death.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

### Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon.

Product is not combustible.

Containers close to fire should be removed if safe to do so.

### Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

## 6 Accidental Release Measures

### Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust. Spills may be slippery.

### Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

(Contd. on page 3)

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(Contd. of page 2)

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and sweep into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Wash area down with excess water.

## 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Do not store in direct sunlight. Protect from heat, moisture and exposure to air. Keep away from strong acids, sulphuric acid, hydrated lime, water, aluminium powder, fluorine, phosphorus pentoxide, ammoniacal silver nitrate and lithium.

## 8 Exposure controls and personal protection

**Exposure Standards:**

Nuisance dust:

TWA: - ppm / 10 mg/m<sup>3</sup>STEL: - ppm / - mg/m<sup>3</sup>**Engineering Controls:** Ensure adequate ventilation of the working area.**Respiratory Protection:**

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Protective gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Powder
<b>Colour:</b>	White to greyish
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	11.3
<b>Melting point/freezing point:</b>	851 °C
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	Not applicable

(Contd. on page 4)

# Safety Data Sheet

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(Contd. of page 3)

<b>Flammability:</b>	Not applicable
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	>1000 °C
<b>Explosion Limits:</b>	
Lower:	Not applicable
Upper:	Not applicable
<b>Vapour Pressure:</b>	Not applicable.
<b>Relative Density:</b>	2.532
<b>Vapour Density:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Solubility in Water at 25 °C:</b>	250 g/L Soluble
<b>Partition Coefficient (n-octanol/water):</b>	No information available

## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:**

Hazardous polymerisation will not occur.

May react violently with acids generating carbon dioxide and large quantities of heat.

Reacts with hydrated lime and moisture to form caustic soda.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Heat, moisture and exposure to air.**Incompatible Materials:**

Strong acids, sulphuric acid, hydrated lime, water, aluminium powder, fluorine, phosphorus pentoxide, ammoniacal silver nitrate and lithium.

**Hazardous Decomposition Products:** Oxides of carbon.

## 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****497-19-8 Sodium carbonate**LC<sub>50</sub> 2100 - 2500 mg/m<sup>3</sup> (rat)Oral LD<sub>50</sub> 4090 mg/kg (rat)**Acute Health Effects****Inhalation:**

May cause respiratory irritation, coughing and breathing difficulty. Excessive exposure may cause damage to the nasal septum.

**Skin:**

May cause skin irritation. Product is mildly alkaline and may cause redness, blistering and possible skin burns.

**Eye:**

Causes serious eye damage. May cause corneal damage and conjunctival oedema. Risk of injury increases if eyes are kept closed.

**Ingestion:**

May cause gastrointestinal irritation. Concentrated solutions are corrosive and may cause cramps, vomiting and diarrhoea. Extreme cases may cause circulatory collapse and death.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Causes serious eye damage.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

(Contd. on page 5)



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(Contd. of page 4)

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** Repeated or prolonged skin exposure may cause dermatitis and ulceration.**Existing Conditions Aggravated by Exposure:**

Pre-existing eye, skin and respiratory conditions may be aggravated by exposure.

**Additional toxicological information:** No information available

## 12 Ecological Information

**Ecotoxicity:** No further relevant information available.**Aquatic toxicity:** No further relevant information available.**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**Other adverse effects:** No further relevant information available.

## 13 Disposal considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 Transport information

**UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

## 15 Regulatory information

**Australian Inventory of Chemical Substances:**

497-19-8 Sodium carbonate

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 5

## 16 Other information

**Date of Preparation or Last Revision:** 01.02.2017**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)

(Contd. on page 6)

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(Contd. of page 5)

**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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