



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 28.08.2014

Revision: 28.08.2014

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** CAUSTIC SODA

**Other Name:** Sodium hydroxide

**Recommended Use of the Chemical and Restriction on Use:** Dairy cleaner.

**Details of Manufacturer or Importer:**

DASCO Pty Ltd

24 - 26 Helen Street

Heidelberg Heights VIC 3081

**Phone Number:** (03) 9459 7004

**Emergency telephone number:** 13 11 26 (Poisons Information Centre)

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**



corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

**Label Elements**

**Signal Word** Danger

**Hazard Statements**

H314 Causes severe skin burns and eye damage.

**Precautionary Statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P264 Wash hands thoroughly after handling.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P321 Specific treatment (see on this label).

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

P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

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

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterisation: Substances**

**CAS No. Description**

1310-73-2 Sodium hydroxide (Na(OH)) 100%

**Hazardous Components:** Void

## 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.

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**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek immediate medical attention.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Seek immediate medical attention.

**Information for Doctor****Symptoms Caused by Exposure:**

**Inhalation:** May cause coughing, burning sensations, laboured breathing, sneezing, sore throat and runny nose.

**Skin Contact:** Causes redness, pain and serious skin burns.

**Eye Contact:** Causes redness, pain and blurred vision. Unless treated immediately, may cause severe, deep burns and even permanent loss of sight.

**Ingestion:** May cause burns in the mouth and throat, nausea, vomiting, abdominal pains and occasionally bloody diarrhea, drop in blood pressure, heart failure, coma and death.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog or fine water spray.

**Specific Hazards Arising from the Chemical:**

Contact with active metals such as aluminium, tin, zinc or galvanised iron may generate flammable hydrogen gas.

Hazardous combustion products include carbon and sodium oxides.

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

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## 6 . ACCIDENTAL RELEASE MEASURES

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

Wear Safe Work Australia 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.

**Environmental Precautions:**

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

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

Stop leak if safe to do so and sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Consider using vacuum equipment.

Prepared spray spill absorb with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

## 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 or aerosols. 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.

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**Conditions for Safe Storage:**

Store in original container in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Do not store in glass containers. Protect from physical damage. Keep away from moisture, acids, active metals, ammonium compounds, flammable liquids, organic halides, nitromethane, nitro compounds, metal salts, wood and wood products.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:****1310-73-2 Sodium hydroxide (Na(OH))**

NES	TWA: 2 mg/m <sup>3</sup> Peak limitation: 2 mg/m <sup>3</sup>
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**Engineering Controls:**

Ensure adequate ventilation of the workplace. If handling industrial quantities, or if dust/aerosol risk exists, provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour as low as possible, at least below the occupational exposure limits.

**Personal Protective Equipment (PPE):****Respiratory Protection:**

Use a Safe Work Australia approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Where a dust inhalation risk exists, wear a Class P1 (particulate) respirator.

**Skin Protection:**

Rubber or plastic 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.

Impervious overalls, plastic apron, sleeves and boots should be worn when handling industrial quantities. See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

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

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Pellets, granules or flakes.
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	Not determined.
<b>pH-Value:</b>	14 (Very alkaline)
<b>Melting point/Melting range:</b>	324 °C
<b>Initial Boiling Point/Boiling Range:</b>	1390 °C
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Product is not flammable.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Negligable

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<b>Density:</b>	No information available
<b>Relative Density:</b>	2.13 (Water=1)
<b>Vapour Density:</b>	Not applicable.
<b>Evaporation Rate:</b>	Not applicable
<b>Solubility in Water at 20 °C:</b>	109 g/100mL
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>% Volatiles by Volume:</b>	Nil
<b>VOC:</b>	Nil

## 10 . STABILITY AND REACTIVITY

### Possibility of Hazardous Reactions:

Very alkaline, will react vigorously with acids. Solution in water will generate a great deal of heat and may boil. Will react violently with hot water. Contact with active metals may generate hydrogen, a flammable gas. Contact with ammonium compounds may generate ammonia, a toxic gas. May react violently with organic halides, nitro compounds.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

### Conditions to Avoid:

Exposure to moisture and air. Absorbs moisture and carbon dioxide when exposed to air.

### Incompatible Materials:

Acids, acid salts, ammonium compounds, nitro compounds, organic halides, active metals (aluminium, tin, zinc or galvanised iron), nitromethane, nitro compounds, hot water, wood and wood products and glass.

**Hazardous Decomposition Products:** No information available

## 11 . TOXICOLOGICAL INFORMATION

### Toxicity:

#### LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:

#### 1310-73-2 Sodium hydroxide (Na(OH))

Oral	LDLo	500 mg/kg (rabbit)
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### Acute Health Effects

#### Inhalation:

Inhalation of dust or aerosols may cause damage to the upper respiratory tract, and to the lungs. Effects may range from mild irritation of mucous membranes to severe pneumonitis (inflammation and damage of the lung tissues). May cause coughing, burning sensations, laboured breathing, sneezing, sore throat and runny nose. Inhalation of dust or aerosols may cause pulmonary oedema (fluid build up in the lungs). Onset of symptoms may be delayed.

**Skin:** Causes redness, pain and serious skin burns.

#### Eye:

Causes redness, pain, blurred vision. Unless treated immediately, may cause severe, deep burns and even permanent loss of sight.

#### Ingestion:

Causes very serious damage to the mucous membranes and any other tissues it comes into contact with. May cause swelling of the larynx and subsequent suffocation. May cause burns in the mouth and throat, nausea, vomiting, abdominal pains and occasionally bloody diarrhea, drop in blood pressure, heart failure, coma and death. Damage may not be apparent until days after contact, but still may be fatal. Can cause perforation of the stomach and intestines, and if not immediately fatal, the sites of subsequent scarring have been associated with stomach cancer formation.

**Skin Corrosion / Irritation:** Causes severe skin burns.

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

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

**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 slight skin contact may cause dermatitis and burns.**Existing Conditions Aggravated by Exposure:**

Persons with pre-existing skin disorders, eye problems or impaired respiratory function, may be more susceptible to harmful effects associated with this product.

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** Harmful to living organisms.**Aquatic toxicity:** No information available**Persistence and Degradability:** No information available**Bioaccumulative Potential:** No information available**Mobility in Soil:** No 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

<b>UN Number</b>	1823
<b>Proper Shipping Name</b>	SODIUM HYDROXIDE, SOLID
<b>Dangerous Goods Class</b>	8
<b>Packing Group:</b>	II
<b>EMS Number:</b>	FA-SB
<b>Hazchem Code:</b>	2X
<b>Special Provisions:</b>	Not applicable
<b>Limited Quantities:</b>	1 kg
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P002, IBC08
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	B2, B4

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**Portable Tanks & Bulk Containers - Instructions: T3**

**Portable Tanks & Bulk Containers - Special Provisions:** TP33

## 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

1310-73-2 Sodium hydroxide (Na(OH))

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

Poisons Schedule: 6

## 16 . OTHER INFORMATION

**Creation Date:** 28.08.2014**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds

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)

**Disclaimer**

This MSDS 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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