

Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

1 Identification

Product Name: CAUSTIC SODA

Other Means of Identification: Mixture

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: National Poison Information Centre: 13 11 26

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.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



corrosion

Skin Corrosion/Irritation 1A H314 Causes severe skin burns and eye damage.

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



STOT SE 3 H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary Statements

P260 Do not breathe dusts or mists.

P264 Wash hands thoroughly after handling.

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

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

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

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

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

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

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

P405 Store locked up.

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P501 Dispose of contents/container in accordance with local/regional/national regulations. (Contd. of page 1)

3 Composition and Information on Ingredients

Chemical Characterisation: Substances**CAS No. Description**

1310-73-2 Sodium hydroxide (Na(OH)) 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. 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. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation. May cause coughing, wheezing, sore throat and shortness of breath. May cause chemical pneumonitis and pulmonary oedema.

Skin Contact: Causes severe skin burn and redness.

Eye Contact: Causes serious eye damage, redness and blurred vision. May cause permanent eye damage.

Ingestion: May cause irritation or burns to the mouth, throat and gastrointestinal system. May cause perforation of the stomach or intestines. May cause swelling of the larynx and subsequent suffocation. May cause vomiting, diarrhoea, ulceration and bleeding. May cause shock and collapse. May be fatal if swallowed.

5 Fire Fighting Measures

Suitable Extinguishing Media: Water fog or fine water spray.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and sodium.

This product is not flammable, however contact with metals may generate flammable hydrogen gas.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

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. Do not touch or walk through spilt product. Product may be slippery when spilt.

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:

For small spills: If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb spill with inert absorbent material and transfer to a suitable container for disposal.

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For large spills: absorb spill with sand, earth or other absorbent material. Transfer to a suitable container for disposal.

7 Handling and Storage

Precautions for Safe Handling:

Reacts violently with acids.

May be corrosive to metals and wood.

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. Store in original container. Protect containers from physical damage. Protect from direct sunlight and moisture. Slightly hygroscopic, may absorb moisture from the air. Keep away from acids, oxidising agents, ammonium compounds, wood, organic halides, nitro compounds and active metals such as aluminium, tin or zinc.

8 Exposure Controls and Personal Protection

Exposure Standards:

CAS: 1310-73-2 Sodium hydroxide

WES Peak limitation: 2 mg/m³

Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

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:

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. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Pellets, granules or flakes.
Colour:	White
Odour:	Odourless
Odour Threshold:	Not determined.
pH-Value:	14 (Very alkaline)
Melting point/freezing point:	324 °C
Initial Boiling Point/Boiling Range:	1390 °C
Flash Point:	Not applicable
Flammability:	Product is not flammable.

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Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	Negligible
Density:	No information available
Relative Density:	2.13 (Water=1)
Vapour Density:	Not applicable.
Evaporation Rate:	Not applicable
Solubility in Water at 20 °C:	109 g/100mL
Partition Coefficient (n-octanol/water):	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.
 Reacts violently with acids.
 May be corrosive to metals and wood.
 Will generate significant amounts of heat when mixed with water.
 Contact with ammonium compounds may generate toxic ammonia gas.
 Contact with acids may generate carbon dioxide.
 Contact with metals may generate flammable hydrogen gas.

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

Conditions to Avoid: Physical damage to container, direct sunlight and moisture.

Incompatible Materials:

Acids, oxidising agents, ammonium compounds, wood, organic halides, nitro compounds and active metals such as aluminium, tin or zinc.

Hazardous Decomposition Products: Oxides of carbon and sodium.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 1310-73-2 Sodium hydroxide**

Oral	LD ₅₀	2,000 mg/kg (rat)
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Acute Health Effects**Inhalation:**

May cause respiratory irritation. May cause coughing, wheezing, sore throat and shortness of breath. May cause chemical pneumonitis and pulmonary oedema.

Skin: Causes severe skin burn and redness.

Eye: Causes serious eye damage, redness and blurred vision. May cause permanent eye damage.

Ingestion:

May cause irritation or burns to the mouth, throat and gastrointestinal system. May cause perforation of the stomach or intestines. May cause swelling of the larynx and subsequent suffocation. May cause vomiting, diarrhoea, ulceration and bleeding. May cause shock and collapse. May be fatal if swallowed.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

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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 contact may cause dermatitis.**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.

Additional toxicological information: No information available

12 Ecological Information

Ecotoxicity:**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 ADG, IMDG, IATA	UN1823
Proper Shipping Name ADG, IMDG, IATA	SODIUM HYDROXIDE, SOLID
Dangerous Goods Class ADG Class:	8 Corrosive substances.
Packing Group: ADG, IMDG, IATA	II
EMS Number:	F-A,S-B
Hazchem Code:	2X
Limited Quantities:	1 kg
Packagings & IBCs - Packing Instruction:	P002, IBC08
Packagings & IBCs - Special Packing Provisions:	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:

CAS: 1310-73-2 Sodium hydroxide

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

Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 02.09.2019**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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

LC₅₀: Lethal concentration, 50 percentLD₅₀: 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)

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

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 - February 2016"

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