

Safety Data Sheet

Caustic Soda



1. Identification

Trade name of product : Caustic Soda
Other Shipping Name : Sodium Hydroxide Solid
Supplier Address : Cleaning Essentials On the Run
183 Ruthven St Toowoomba
QLD 4350 Australia
Supplier Contact Details : Phone: 07 4632 4120, email: sales@cleaningessentials.com.au
Emergency telephone number : Poisons Information 131126
Material uses : General Purpose Chemical
Date of issue : 1 October 2016



2. Hazards identification

Classified as **DANGEROUS GOODS** by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

This material is **HAZARDOUS** according to Safe Work Australia's GHS Criteria.

Hazard Category

Corrosive to Metals - Category 1

Eye Damage - Category 1

Skin Corrosion – Category 1A



Signal Word: DANGER

Hazard Statements:

May be corrosive to metals.

Causes serious eye damage.

Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention:

Keep only in original container.

Wear protective gloves.

Do not breathe mists. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Response:

Absorb spillage to prevent material damage.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment (see section 4 of the SDS).

Storage:

Caustic Soda

Store in a corrosion resistant container.
Store locked up, in accordance with local regulatory requirements.

Disposal:

Dispose in contents/container in accordance with local regulations.

General Phrases:

Keep out of reach of children

3. Composition/information on ingredients

Ingredient name	CAS number	Proportion %	TWA mg/m ³	STEL mg / m ³
Sodium Hydroxide	1310-73-2	>90	2	None Allocated

Ingredients, determined not to be hazardous according to Safe Work Australia's criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

4. First-aid measures

- Eye contact** : Rinse with plenty of running water. Seek medical advice if symptoms occur.
- Skin contact** : Remove contaminated clothing (wash before re-use). Then rinse with plenty of running water. Seek medical advice if symptoms occur.
- Inhalation** : Remove to fresh air. Seek medical advice if symptoms occur.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Give water to drink. Seek medical advice if symptoms occur.
- Notes to physician** : Treat symptomatically. Concentrated solution can cause corneal burns.

5. Fire-fighting measures

- Extinguishing media** : Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
- Specific Hazards arising from the chemical** : Corrosive.
- Special protective equipment and precautions for fire-fighters** : Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus in the event of a fire.
- Hazchem Code** : 2W

6. Accidental release measures

- Personal precautions** : For small spills ensure suitable equipment and PPE is used. Dispose of waste in accordance with local rules. For large spills the following PPE is recommended to reduce risk: safety glasses, chemical resistant shoes & gloves, long sleeves / trousers. Remove non-essential personnel from the area. Ensure that any acids or other products of incompatible classes near the spill are removed.
- Environmental precautions** : Contain large spills/releases using appropriate bunding or capping. Prevent entry into drainage systems, sewers and waterways.
- Methods for cleaning up** : Spills may be slippery when wet. Small spills use a clean pan & brush, for larger spills contain, collect and dispose. Note: Decontaminate equipment after use.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Use clean dispensing equipment, Use appropriate PPE, Always add product to water when diluting. Note: Generates heat upon addition to water.
- Storage** : Store in a cool, dry, well ventilated place. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store in original containers whenever possible. Do not store in metal containers without prior approval. Check container compatibility before transfer. Keep containers closed when not in use - check regularly for leaks. Ensure good housekeeping in storage area.

8. Exposure controls/personal protection

- Engineering measures** : Use sensible work practices that reduce operator exposure to the product. Ensure that adequate ventilation is provided, and air is moving constantly in the area of use while drum is open. Keep containers closed when not in use.
- Personal Protection**
- Eyes** : Safety glasses/face shield.
- Hands** : Chemical resistant gloves.
- Respiratory** : If determined by a risk assessment an inhalation risk exists, wear a suitable dust respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
- Skin** : Long sleeves/trousers/chemical resistant apron/chemical resistant boots.

9. Physical and chemical properties

- Physical state** : Powder
- Colour** : White
- Odour** : Slight
- pH** : 12.7 (1% solution)
- Flash point (°C)** : NA
- Melting point (°C)** : 318
- Specific Gravity (g/ml @ 25°C)** : 2.13
- Solubility in water** : Highly soluble

10. Stability and reactivity

- Reactivity** : Do not mix with acids, ammonium salts or chlorinated hydrocarbons.
- Stability** : Stable under normal storage conditions. Absorbs moisture from air.
- Possibility of Hazardous Reactions** : Produces heat when mixed with water. Contact with acids may liberate large amounts of heat. Ammonia gas may be produced if mixed with ammonium salts. In the presence of moisture, the material is corrosive to aluminium, zinc and tin producing highly flammable hydrogen gas.
- Conditions to avoid** : Avoid contact with food stuffs.
- Incompatible Materials** : Incompatible with ammonium salts, acids, chlorinated hydrocarbons, aluminium, zinc, lead, tin, and their alloys ..

11. Toxicological information

Potential acute health effects

No acute health effects expected if the product is handled in accordance with instructions provided by the manufacturer. Symptoms that may result if the product is mishandled or if overexposure occurs include:

- Ingestion** : Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
- Skin** : Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.
- Eye** : A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.
- Inhalation:** : Inhalation of fine dusts may cause irritation and chemical burns to the respiratory tract and nasal passages.

12. Ecological information

Ecotoxicity data

May be harmful to the environment due to the effect of high pH. Avoid contaminating waterways.

13. Disposal considerations

- Methods of disposal** : Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.

14. Transport information

Regulation	UN Number	Proper shipping name	Class	Packing group	Additional information
ADG	1823	Sodium Hydroxide Solid	8	II	Hazchem 2W

15. Regulatory information

Classified as **DANGEROUS GOODS** by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

This material is **HAZARDOUS** according to Safe Work Australia's GHS Criteria.

This material is a **SCHEDULE 6 POISON** according to the SUSMP.

Hazard Category

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Skin Corrosion – Category 1A

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Response:

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Storage:

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Disposal:

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General Phrases:

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16. Other information

- Literature References** :
- Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons.
 - Australian Code for the Transport of Dangerous Goods by Road & Rail.
 - Workplace exposure standards, Safe Work Australia.
 - Hazardous Sunstances/Chemicals Information System, Safe Work Australia.
 - Globally Harmonised System of classification and labelling of chemicals.
 - Raw material suppliers' SDS

Symbio Traffic Light System

Traffic Light	Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition) (ADG7)	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) as adopted by Work, Health and Safety regulations, Australia.	Notes
RED	✓	✓	PLUS products that are NOT Classified as Dangerous Goods according to ADG7, but classified as Corrosive to eyes and skin and/or Aspiration Hazard Category 1 and/or Toxic to humans according to the GHS as adopted by Work, Health and Safety regulations, Australia
AMBER	✗	✓	EXCLUDING products that are classified as Corrosive to eyes and skin and/or Aspiration Hazard Category 1 and/or Toxic to humans according to the GHS as adopted by Work, Health and Safety regulations, Australia
GREEN	✗	✗	

Prepared by : **Australian Chemical Services Pty Ltd (0411 863 178)**

This Safety Data Sheet is the first issue under the direction of the PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS of December 2011. The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

END OF SAFETY DATA SHEET