



# SAFETY DATA SHEET

Product Name: Liquid Caustic Soda

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This revision issued: January, 2017

## Section 1 - Identification of The Material and Supplier

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**Chemical nature:** Liquid Caustic Soda 5-50%  
**Trade Name:** Liquid Caustic Soda  
**Other names:** Caustic Soda Liquid; Caustic Soda Solution; Soda Lye Solution (10-50%); Sodium Hydroxide (Na(OH)) 10.0 - 50.0% Solution  
**Creation Date:** July 2010  
**This version issued:** January, 2017 and is valid for 5 years from this date.

## Section 2 - Hazards Identification

**ADG Code:** Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

**ASCC Hazard Classification:** Hazardous according to the criteria of ASCC [NOHSC:1008(2004)]

**Categories:** C Corrosive

**Risk phrases:** R35, R41: Causes severe burns. Risk of serious eye damage.

**Safety phrases:** S26, S37, S39, S45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**HSNO Hazard Classification:** 6.1D; 8.1A; 8.2B; 8.3A; 9.1D; 6.1E

**Poisons Schedule (Aust):** 6



### DANGER

H290 May be corrosive to metals.

H314 Causes severe skin burns.

### PRECAUTION

P234 Keep only in original container.

P260 Do not breathe, dust, fumes, gas, mists, vapours or spray

P264 Wash contacted areas thoroughly after handling

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

### RESPONSE

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 INHALLED: 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. Continuing rinsing

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P310	Immediately call a POISON CENTRE or DOCTOR
P321	Specific treatment (see First Aid Measures on Safety Data Sheet)
P363	Wash contaminated clothing before reuse
P390	Absorb spillage to prevent material damage

**STORAGE**

P405	Store locked up
P406	Store in corrosive resistant container with a resistant inner liner

**DISPOSAL**

P501	If product cannot be recycled consider controlled incineration, or contact a specialist waste disposal
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### Section 3 - Composition/Information on Ingredients

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Chemical Entity Formula	CAS Number	Proportion
Water	No Data Available	7732-18-5 50.0 - 90.0 %
Sodium Hydroxide	No Data Available	1310-73-2 5.00 - 45.00 %

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### Section 4 - First Aid Measures

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Poison Information Centres can provide additional assistance on 13 11 26 (Australia wide).

**Eye:** Irrigate thoroughly with water for at least 10 minutes. If discomfort persists obtain medical attention.

**Inhalation:** Remove from exposure, rest and keep warm. In severe cases obtain medical attention.

**Skin:** Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use. In severe cases, OBTAIN MEDICAL ATTENTION.

**Ingestion:** Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

**Facilities:** Eye wash facilities and safety shower are recommended.

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### Section 5 - Fire Fighting Measures

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**Suitable extinguishing media:** Foam, dry powder, carbon dioxide or vaporising liquids

**Hazards from combustion products:** May evolve toxic gases (hydrocarbons, carbon oxides) if burning.

**Precautions and special protective equipment:** Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Hazchem code: 3 [Y]

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### Section 6 - Accidental Release Measures

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**Spillage:** In case of spillage (bulk), wear splash-proof goggles, PVC/rubber gloves, coveralls and rubber boots (see section 8). Keep people away, evacuate area. Shut off all sources of ignition.

**Containment and clean up:** Absorb spill with sand or similar, collect and place in sealable containers using non-sparking tools and transport outdoors for disposal. Ventilate area and wash spill site after material pick-up is complete. Prevent spill from entering drains or waterways. Caution: slippery when spilt.

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### Section 7 - Handling and Storage

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**Handling:** Measures should be taken to prevent materials from being splashed into the eyes or on the skin. Wear eye-shields and protective clothing. Smoking should not be permitted in work areas. Provide adequate ventilation.

**Storage:** Store in a cool, dry, well-ventilated area, away from oxidising agents (eg hypochlorites), acids (eg sulfuric acid), heat and light sources, and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Keep only in original container. Check regularly for leaks or spills. This material is a Scheduled Poison (S6) and must be stored, maintained and used in accordance with the relevant regulations. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940-The storage and handling of flammable and combustible liquids and AS 2430-Explosive gas atmospheres for further information concerning ventilation requirements.

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### Section 8 - Exposure Controls and Personal Protection

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**National exposure standards:** No exposure standard allocated

**Biological limits:** No biological limit allocated

**Engineering controls:** Ensure adequate ventilation. In poorly ventilated areas, mechanical explosion-proof extraction ventilation is recommended. Keep containers closed when not in use.

**PPE:** Wear coveralls, splash-proof goggles and PVC or rubber gloves. Where an inhalation risk exists, use respirators in accordance with AS 1716 - Respiratory Protective Devices, selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices (Type A organic vapour and dust/mist filters). In a laboratory situation, wear a laboratory coat

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### Section 9 - Physical and Chemical Properties:

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<b>Appearance:</b>	Colourless to pale yellow liquid
<b>Odour:</b>	Fresh, Camphor-like
<b>pH:</b>	Not available
<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Boiling point/range:</b>	174-176°C
<b>Melting point:</b>	1.5 °C
<b>Specific density:</b>	0.8850 to 0.9280 at 20°C.
<b>Flash point (Closed Cup method):</b>	43-56°C
<b>Percent volatile:</b>	100%
<b>Refractive index:</b>	1.4550 to 1.4800 at 20°C.
<b>Optical rotation:</b>	Between -20° and +10° at 20°C.
<b>Solubility in Water:</b>	Practically insoluble
<b>Solubility In 70% Ethanol:</b>	1 + 5 (max) clear at 20°C

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### Section 10 - Stability and Reactivity

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**Chemical stability:** Stable

**Conditions to avoid:** Heat, light, open flames and other sources of ignition

**Incompatible materials:** Strong oxidising agents. Protect from air.

**Hazardous decomposition products:** Carbon monoxide and carbon dioxide (from combustion).

**Hazardous reactions:** Hazardous polymerisation will not occur.

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### Section 11 - Toxicological Information

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**ACUTE EFFECTS****Eye contact:** Irritant.**Skin contact:** Possible Irritant.**Inhalation:** Potential irritant. Over-exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.**Ingestion:** Harmful if ingested in quantity, causing internal irritation, nausea and vomiting, dizziness and muscular weakness, rapid pulse and difficulty in breathing. In severe cases delirium and convulsions may occur.\***Acute toxicity\*:**

Oral LD50 2.48 g/kg (rat)

Subcutaneous LD50 50 mg kg-1 (mouse)

Intramuscular LDLo 2250 mg kg-1 (guinea pig)

Subcutaneous LDLo 1500 mg kg-1 (dog)

**Chronic toxicity:** No information available

\* see Toxic Effects Code from the Registry of Toxic Effects of Chemical Substances (RTECS)

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### Section 12 - Ecological Information

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**Ecotoxicity:** No information available**Persistence/Degradability:** No information available**Mobility:** No information available

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### Section 13 - Disposal Considerations

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**Disposal methods:** Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.**Precautions:** Prevent contamination of drains or waterways.

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### Section 14 - Transport Information

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<b>UN number:</b>	1993
<b>UN proper shipping name:</b>	FLAMMABLE LIQUID, N.O.S.
<b>UN Packing group:</b>	III
<b>ADG proper shipping name:</b>	Not listed in ADG code
<b>Class and subsidiary risk(s):</b>	Class 3. No subsidiary risks listed.
<b>Hazchem:</b>	3 [Y]
<b>EPG:</b>	3A1
<b>IMDG class:</b>	3.3

**Special precautions for user:** Classified as dangerous goods for the purpose of transport by road or rail. Class 3 Flammable Liquid. Do not transport with chemicals of class; 1 (Explosives), 2.1/2.3 (Flammable /Toxic gases), 4.2 (Spontaneously combustibles), 5.1 (Oxidising agents), 5.2 (Organic peroxides), 6(Toxics), 7 (Radioactives) and foodstuffs

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### Section 15 - Regulatory Information

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**Poison Schedule:**6**AICS Listing:** Yes**Assessed by NICNAS:** No**EINECS Listing:** 283-406-2

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**Section 16 - Other Information**

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This SDS contains only safety-related information. For other data see product literature.

**Acronyms:**

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>SWA</b>	Safe Work Australia, formerly ASCC and NOHSC
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>R-Phrase</b>	Risk Phrase
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines & Poisons
<b>UN Number</b>	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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