

Material Safety Data Sheet



ALKALINITY

1. Identification of the material and supplier

Trade name of product : ALKALINITY
ADG : SODIUM HYDROXIDE SOLUTION
Supplier : ECOLAB PTY LTD (A.B.N. 59 000 449 990)
6 Hudson Ave, Castle Hill NSW 2154
Customer Service phone: 1 800 022 002
Free Fax Number: 1 800 655 679

Emergency telephone number : 1 800 124 170

Material uses : Laundry product

Product dilution information : Use up to 0.375% in water

Date of issue : 21 May 2012

2. Hazards identification

Product AS SOLD

Statement of hazardous/dangerous nature : **Classified as hazardous** according to the criteria of Safe Work Australia and **classified as dangerous goods** according to the ADG Code.

Classification : C - Corrosive

Risk phrases : R35- Causes severe burns.
R41- Risk of serious damage to eyes.

Safety phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28- After contact with skin, wash immediately with plenty of water.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Product AT USE DILUTION

Not classified as hazardous according to the criteria of Safe Work Australia **nor classified as dangerous goods** according to the ADG Code.

Not applicable.

Not classified.

Not applicable.

3. Composition/information on ingredients

Product AS SOLD

Ingredient name	CAS number	Concentration % (w/w)
sodium hydroxide	1310-73-2	30 - 60

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

Product AT USE DILUTION


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

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4. First-aid measures

Product AS SOLD		Product AT USE DILUTION
Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.	Rinse with plenty of running water. Get medical attention if symptoms occur.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse.
Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.	Remove to fresh air. Get medical attention if symptoms occur.
Ingestion	: Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26). Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.	Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26).
Notes to physician	: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.	No specific treatment. Treat symptomatically.

5. Fire-fighting measures

Product AS SOLD	
Hazchem code	: 
Extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Fire-fighting media and instructions	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Fire/explosion hazards	: No specific hazard.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides metal oxide/oxides

6. Accidental release measures

Product AS SOLD		Product AT USE DILUTION
Personal precautions	: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6. Accidental release measures

<p>Methods for cleaning up</p>	<p>: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.</p>	<p>Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.</p>
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Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

<p>Handling</p>	<p>Product AS SOLD</p> <p>: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>	<p>Product AT USE DILUTION</p> <p>Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.</p>
<p>Storage</p>	<p>: Keep container tightly closed. Keep container in a cool, well-ventilated area.</p>	<p>Keep container tightly closed. Keep container in a cool, well-ventilated area.</p>

8. Exposure controls/personal protection

Product AS SOLD

Occupational exposure limits

Ingredient name	Exposure limits
sodium hydroxide	Safe Work Australia (Australia, 8/2005). PEAK: 2 mg/m ³ 15 minute(s).

<p>Engineering measures</p>	<p>Product AS SOLD</p> <p>: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.</p>	<p>Product AT USE DILUTION</p> <p>No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.</p>
<p><u>Personal protection</u></p>		

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8. Exposure controls/personal protection

Eyes	: Wear chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	Recommended: Safety glasses.
Hands	: Use chemical-resistant, impervious gloves. Recommended: Elbow length PVC gloves.	Recommended: PVC gloves.
Respiratory	: If ventilation is inadequate, use respirator that will protect against organic vapour and dust/mist. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.	A respirator is not needed under normal and intended conditions of product use.
Skin	: Wear synthetic apron, other protective equipment as necessary to prevent skin contact.	No special protective clothing is required.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	

9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Liquid.
Colour	: Red	Hazy liquid [Light]
Odour	: Faint odour	Odourless
pH	: 13 to 14 [Conc. (% w/w): 100%]	10 to 12
Flash point	: > 100°C Product does not support combustion.	> 100°C
Boiling point	: >100°C (>212°F)	
Relative density	: 1.4 to 1.42	
Solubility	: Easily soluble in the following materials: cold water and hot water.	

10. Stability and reactivity

	Product AS SOLD
Stability	: The product is stable.
Conditions to avoid	: No specific data.
Materials to avoid	: Highly reactive or incompatible with the following materials: acids. Reactive or incompatible with the following materials: metals.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Potential acute health effects

	Product AS SOLD	Product AT USE DILUTION
Inhalation	: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.	No known significant effects or critical hazards.
Ingestion	: May cause burns to mouth, throat and stomach.	No known significant effects or critical hazards.
Skin contact	: Severely corrosive to the skin. Causes severe burns.	No known significant effects or critical hazards.

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11. Toxicological information

Eye contact : Severely corrosive to the eyes. Causes severe burns. No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

12. Ecological information

Product AS SOLD

Ecotoxicity data

Product/ingredient name	Result	Species	Exposure
sodium hydroxide	Acute EC50 156 mg/L		48 hours
	Acute EC50 45.4 mg/L		48 hours
	Acute EC50 40 mg/L		48 hours
	Acute LC50 189 mg/L		96 hours
	Acute LC50 72 mg/L		96 hours

Persistence/degradability : Not available.
Mobility : Not available.
Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

	Product AS SOLD	Product AT USE DILUTION
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.	The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

Product AS SOLD

Regulation	UN number	Proper shipping name	Classes	Packing group	Additional information
ADG	UN1824	SODIUM HYDROXIDE SOLUTION	8	II	<u>Hazchem code</u> 2R
IMDG	UN1824	SODIUM HYDROXIDE SOLUTION	8	II	<u>Emergency schedules (EmS)</u> F-A, S-B

14. Transport information

Product AT USE DILUTION
Not intended for transport.

15. Regulatory information

AU Classification : **Product AS SOLD**
: **Classified as hazardous** according to the criteria of Safe Work Australia and **classified as dangerous goods** according to the ADG Code.
C - Corrosive
R35- Causes severe burns.
R41- Risk of serious damage to eyes.

Product AT USE DILUTION
Not classified as hazardous according to the criteria of Safe Work Australia **nor classified as dangerous goods** according to the ADG Code.
Not applicable.
Not classified.

Australia inventory (AICS) : All substances are listed on AICS or exempt.

Standard for the Uniform Scheduling of Medicines and Poisons

S6

Control of Scheduled Carcinogenic Substances

<u>Ingredient name</u>	<u>Schedule</u>
No listed substance	

16. Other information

Prepared by : Regulatory Affairs

Date of previous issue : 9 February 2012

References :

- ADG Code - Australian Transport of Dangerous Goods
- Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment
- Approved Criteria for Classifying Hazardous Substances
- List of Designated Hazardous Substances
- National Code of Practice for the Labelling of Workplace Substances
- National Code of Practice for the Preparation of Material Safety Data Sheets
- National Model Regulations for the Control of Scheduled Carcinogenic Substances
- National Model Regulations for the Control of Workplace Hazardous Substances
- Standard for the Uniform Scheduling of Medicines and Poisons

Disclaimer

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**