

Infosafe No™ VAR4L	Issue Date : January 2016	ISSUED by HUNTER
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Product Name **ADL (C)**

Classified as hazardous

1. Identification

GHS Product Identifier	ADL (C)
Company Name	Hunter Industrials Pty Ltd (ABN 083 330 974)
Address	51-53 Lakewood Blvd Braeside Vic 3195 Australia
Telephone/Fax Number	Tel: (03) 9586 2888 Fax: (03) 9587 9851
Emergency phone number	0409 949 298
E-mail Address	sales@huntind.com.au
Recommended use of the chemical and restrictions on use	Alkaline Machine Dishwash Liquid, containing Chlorine. Designed for use in commercial warewashing equipment.

2. Hazard Identification

GHS classification of the substance/mixture	ED1 Eye Damage/Irritation: Category 1 SC-1A Skin Corrosion/Irritation: Category 1A
Signal Word (s)	DANGER
Hazard Statement (s)	H314: Causes severe skin burns and eye damage. H402: Harmful to aquatic life.
Pictogram (s)	Corrosion



Precautionary statement – Prevention	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P260: Do not breathe fumes, mists, vapours or spray. P264: Wash contacted areas thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves, protective clothing and eye or face protection.
Precautionary statement – Response	P310: Immediately call a POISON CENTRE or doctor/physician. P330: Rinse mouth. P363: Wash contaminated clothing before reuse. P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P303+P361+P351: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse cautiously with water for several minutes. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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. P332+P313: If skin irritation occurs: Get medical advice. P337+P313: If eye irritation persists: Get medical advice. P391: Collect spillage. P370+P378: Not combustible. Use extinguishing media suited to burning materials. Water fog or fine spray is the preferred medium for large fires. P405 Store locked up.
Precautionary statement – Storage	
Precautionary statement – Disposal	P501 Dispose of contents/container: Recycle packaging by replacing cap and returning clean containers to recycler or designated collection point.

3. Composition/information on ingredients

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Ingredients	Name	CAS	Proportion
	Potassium hydroxide	1310-58-3	22%
	Sodium hypochlorite	7681-52-9	3.2%
	Ingredients determined not to be hazardous, including water.		to 100%

4. First-aid measures

Inhalation	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In event of cardiac arrest, apply external cardiac massage. seek medical advice.
Ingestion	Immediately rinse mouth with water. Do NOT induce vomiting. Give a glass of water to be taken slowly. Seek immediate medical attention.
Skin	Remove all contaminated clothing and immediately wash affected area with plenty of water. If swelling, redness, blistering or irritation occurs, seek medical advice.
Eye contact	Hold eyes open and flood with running water for at least 15 minutes, bathe eyes with soothing eyedrops or sterile saline, urgently seek medical attention. Transport to hospital or medical centre.
First Aid Facilities	Eye wash station, safety shower and normal washroom facilities.
Advice to Doctor	Product is a solution of potassium hydroxide with sodium hypochlorite and other salts. Corrosive to living tissues. Inhalation may be followed by pulmonary oedema. Contact Poisons Information Centre.

5. Fire-fighting measures

Suitable extinguishing media	Use dry chemical, carbon dioxide, foam or water fog, appropriate to surrounding fire.
Hazards from Combustion Products	Chlorine, water vapour, oxides or carbonates of sodium and potassium, oxides of phosphorus.
Specific hazards arising from the chemical	If tanks, drums or containers of this material are heated, they may rupture and project corrosive materials over a wide area. May react violently with strong acids. May react vigorously or violently with reducing agents or peroxides. Contact with acids will generate chlorine, a poisonous gas. Contact with some metals will generate hydrogen, a flammable gas. Contact with ammonium salts will generate ammonia, a poisonous gas.
Hazchem Code	2X
Other Information	Avoid contact with coloured fabric as Chlorine may bleach colour out. May give off dangerous gas if mixed with other products.

6. Accidental release measures

Spills & Disposal	Spillages are slippery. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Contain using sand or soil - prevent run off into drains and waterways. Use absorbent (soil, sand, vermiculite or other inert material). Collect and seal in properly labelled containers for disposal. Wash area down with excess water. Caution - heat may be evolved.
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7. Handling and storage

Conditions for safe storage, including any incompatibilities	Store in a well ventilated place, out of reach of children. Large quantities should be stored in a bunded dangerous goods store. Store in original container. Keep container tightly closed. May slowly lose chlorine on long storage. Keep away from acids, peroxides, reducing agents, combustible materials, and ammonium salts. Keep away from metals and metal salts. Prevent contact with aluminium, tin, zinc or galvanised iron. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary
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accidents.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Potassium hydroxide			2		Peak limitation
Appropriate engineering controls	Do not use on aluminium, tin, zinc or galvanised iron. Consider local mechanical exhaust/extraction to keep airborne contamination below TLV. Must only be dispensed via Automatic Dosing Equipment.					
Personal Protective Equipment	Prevent contact with the eyes. Avoid contact with the skin. Avoid breathing vapours. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:- Goggles, face shield or safety glasses Gloves, neoprene or nitrile rubber or plastic Plastic apron, sleeves and boots. Respirators in accordance with AS/NZS 1715/1716. The use of a P1 dust mask (disposable) or with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended. Always maintain a high level of personal hygiene when using cleaning chemicals. That is wash hands before eating, drinking, smoking or using the toilet.					

9. Physical and chemical properties

Form	Liquid
Appearance	Clear pale yellow liquid
Odour	Chlorine odour
Boiling Point	No data
Solubility in Water	Miscible with water in all proportions.
Specific Gravity	1.29
pH	12.5-13.5
Flash Point	None
Flammability	Not flammable.
Other Information	Very alkaline. Will react violently with acids, producing heat and generating chlorine gas. Oxidiser. Contact with combustible materials may cause fire. Will react violently with reducing agents. Readily absorbs carbon dioxide from the air. Will react with aluminium, tin and zinc, generating hydrogen, a flammable gas. May react with peroxides and metal salts. Contact with ammonium salts may generate ammonia gas.

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Acids, oxidizing agents, ammonium salts, soft metals.
Hazardous Decomposition Products	Contact with aluminium, tin, zinc or galvanised iron can generate hydrogen, a flammable gas. Contact with ammonium compounds can generate ammonia, a poisonous gas. Will react vigorously or violently with acids, generating chlorine gas. May form toxic oxides of Chlorine if involved in a fire.

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11. Toxicological Information

Toxicology Information	No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:
Acute Toxicity - Oral	LD 50 : Potassium hydroxide 365 mg/kg oral, rat Sodium hypochlorite 5800 mg/kg oral, mouse
Ingestion	Can be fatal. Corrosive. Causes burns to mouth and throat, nausea, vomiting, abdominal pains and diarrhoea (occasionally bloody). Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring, heart failure and coma.
Inhalation	Inhalation of vapours, which may include chlorine, can lead to a build up of fluid in the lungs (pulmonary oedema), which can be fatal. Onset of symptoms may be delayed.
Skin	Corrosive to skin - may cause skin burns, with effects including; Redness, blistering, localised pain, dermatitis and deep burns. Skin contact often does not cause immediate pain, thus care should be taken to avoid contamination of gloves and footwear. Repeated or prolonged contact may lead to irritant contact dermatitis.
Eye	Corrosive to eyes; contact can cause conjunctivitis, corneal burns and ulceration, which can result in permanent injury and possible loss of sight.
Chronic Effects	Long term, low level exposure can lead to irritation of skin, lungs, nose, throat and mouth.

12. Ecological information

Ecotoxicity	Toxic to fish and aquatic organisms.
Mobility	Readily dilutes with water.
Information on Ecological Effects	This substance may cause long term adverse effects in the aquatic environment.
Environmental Protection	Avoid contaminating waterways, drains, sewers, or ground.

13. Disposal considerations

Waste Disposal	Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent.
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14. Transport information

Transport Information	Classified as a Class 8 Dangerous Good. Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7. Store away from acids.
U.N. Number	3266
UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Transport hazard class(es)	8
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	II
IERG Number	37

15. Regulatory information

Poisons Schedule	S6
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Hazard Category	Corrosive
AICS (Australia)	All components listed.

16. Other Information

Signature of Preparer/Data Service	Technical Manager 03 9580 2499
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Technical Contact Numbers	Emergency Advice All Hours: Tel: 0409 949 298 Mon-Fri 8am - 6pm Poisons Information Centre: 13 11 26 - 24hrs
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Other Information	This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this SDS carefully, and if in doubt ring the Contact Point Number given below. ...End Of MSDS...
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