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Infosafe No™ 1CH94

Issue Date : July 2019

RE-ISSUED by ACR

Product Name : **POTASSIUM HYDROXIDE Solution >5%**

	Classified as hazardo	JS
1. Identification		
GHS Product	POTASSIUM HYDROXIDE Solution >5%	
Identifier		
Company Name	AUSTRALIAN CHEMICAL REAGENTS (ACR) (ABN	19 008 264 211)
Address	38 - 50 Bedford Street Gillman	
	S.A. 5013 Australia	
Telephone/Fax	Tel: (08) 8440 2000	
Number	Fax: (08) 8440 2001	
Emergency phone	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9	888 (International)
number		
Recommended use	Manufacture of soaps, printing inks, paint and varnis	
of the chemical and	herbicides, electroplating, electrolyte in alkaline stor	age batteries and organic synthesis.
restrictions on use		
Other Names	<u>Name</u>	Product Code
	Potassium hydroxide 10%w/v	1247
	Caustic potash solution	
	Potassium hydroxide 10M	4508
	Potassium hydroxide 20%w/v	1950
	Potassium hydroxide 30%w/v	0996
	Potassium hydroxide 40%w/v	1031
	Potassium hydroxide 48%w/w	4413
	Potassium hydroxide 8N	4078
	Potassium Hydroxide 45% w/v	3109
	Potassium Hydroxide 1N	0027
	Potassium Hydroxide 2N	6103
	Potassium Hydroxide 5% w/v	2958
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 Business hours: 8:30am to 5:00pm, Monday to Frid	
	business nours. 8.30am to 5.00pm, Monday to Fid	ay.
	Australian Chemical Reagents (ACR) does not warra	ant that this product is suitable for any use or
	purpose. The user must ascertain the suitability of th	ne product before use or application intended
	purpose. Preliminary testing of the product before us	
	purported reliance upon Australian Chemical Reage	
	advice in relation to the suitability of this product of a	
	prohibited at law, any condition implied by any statut	
		duct is not sold by description. Where the provisions
		, the liability of Australian Chemical Reagents (ACR)
		goods or payment of the cost of replacing the goods
	or acquiring equivalent goods.	

2. Hazard Identification

GHS classification	Corrosive to Metals: Category 1
of the substance/mixture	Acute Toxicity - Oral: Category 4 Skin Corrosion/Irritation: Category 1A
Signal Word (s)	DANGER
Hazard Statement (s)	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
Pictogram (s)	Corrosion, Exclamation mark
	\wedge



Precautionary statement – Prevention P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product.



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	POTASSIUM HYDROX				
		Classified as haz	zardous		
Precautionary statement – Response	P280 Wear protective glow P301+P330+P331 IF SWA P301+P312 IF SWALLOW P303+P361+P353 IF ON S skin with water/shower. P363 Wash contaminated P304+P340 IF INHALED: F	LLOWED: rinse mo ED: Call a POISON KIN (or hair): Remo	outh. Do NOT induc CENTER or docto ove/Take off immed se.	e vomiting. r/physician if you feel liately all contaminate	ed clothing. Rinse
Precautionary statement – Storage Precautionary statement – Disposal	breathing. P310 Immediately call a P0 P305+P351+P338 IF IN EN if present and easy to do. 0 P405 Store locked up. P406 Store in corrosive res P501 Dispose of contents/o	(ES: Rinse cautious Continue rinsing. sistant container wit	sly with water for se	liner.	ve contact lenses,
3. Composition/i	nformation on ingredi	ents			
Chemical	Liquid				
Characterization Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
ingreatents	Water	7732-18-5	55-95 %		<u>Illisk i illidse</u>
	Potassium hydroxide	1310-58-3	5-50 %		
4. First-aid meas	ures				
Inhalation	If inhaled, remove from cor	ntaminated area to f	resh air immediate	ly. Apply artificial res	oiration if not
Ingestion	breathing. If breathing is di Rinse mouth thoroughly with DO NOT INDUCE VOMITIN	th water immediate	y, repeat until all tr		
Skin	Immediately remove contain Ensure contaminated cloth severity.				
Eye contact	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.				
First Aid Facilities	Maintain eyewash fountain	and safety shower	in work area.		
Advice to Doctor	Treat symptomatically as for individual reactions of the p	patient.			t of doctor and
Other Information	Burns are not immediately For advice, contact the Nat 0800 764 766) or a doctor.				; New Zealand
5. Fire-fighting m	neasures				
Hazards from Combustion	Use fire extinguishing medi carbon dioxide, or appropri May liberate toxic fumes in	ate foam.	C C	ment. Use water spra	y, dry chemical,
Products Specific hazards arising from the	Material does not burn. Fire may explode when heated.		ce irritating, poison	ous and/or corrosive	gases. Containers
chemical Hazchem Code	2R				
Precautions in	Wear SCBA and chemical protection. Structural firefig	splash suit. Fully er hter's uniform is NC	ncapsulating, gas-ti DT effective for the	ght suits should be w se materials.	orn for maximum
6. Accidental rele					
Spills & Disposal	Do NOT touch or walk throu unless wearing appropriate drains, confined areas.	protective clothing	. Stop leak if safe t	o do so. Prevent entr	y into waterways,
	Cover with DRY earth, sand	a or other non-com	ouslible material fo	nowed by plastic shee	et to minimize
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Product Name :	POTASSIUM H	YDROXIDE Solution >5	%			
		Classified as haza	ardous			
Personal Precautions	Avoid inhalation,	ATER INSIDE CONTAINERS. contact with skin, eyes and clo	C C			n-essential personnel.
Personal Protection	Wear protective	clothing specified for normal or	perations (se	e Section 8)		
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.					
Clean-up Methods - Large Spillages	Seek expert advice on handling and disposal.					
Environmental Precautions	Use appropriate containment to avoid environmental contamination.					
Other Information	Spillages are ver	y slippery.				
7. Handling and	storage					
Precautions for Safe Handling	mists. Use in we	or repeated contact with skin, Il ventilated areas away from a piratory equipment. Wash har	Il ignition so	urces. In ca	se of insuf	ficient ventilation,
Conditions for safe storage, including any incompatabilities	Store in a cool,du Avoid direct sunl Do not store in a	y place. Keep containers secu ght, heat sources, and strong luminium or galvanised contair Reacts exothermically on diluti	urely sealed a oxidizing age ners or use d	and protecte ents. Store a ie-cast zinc	ed against p away from ⁻ or aluminiu	ohysical damage. foodstuffs. Im bungs. Steel bungs
Corrosiveness		ninum, tin and zinc. Corrosive	o steel at ele	evated temp	eratures.	
Storage Regulations	Refer Australian	Standard AS 3780 - 1994 'The	storage and	handling of	corrosive s	substances'.
8. Exposure cont	rols/personal	protection				
Occupational exposure limit values	<u>Name</u>	S	TEL	Т	WA	
		<u>mg/m3</u>	ppm	<u>mg/m3</u>	<u>ppm</u>	Footnote
	Potassium hydro	xide		2		peak

	Potassium hydroxide	2	peak
			limitation
Other Exposure	These Workplace Exposure Standards are guide	es to be used in the control c	of occupational health
Information	hazards. All atmospheric contamination should I	be kept to as low a level as is	s workable. These
	workplace exposure standards should not be us		
	concentrations of chemicals. They are not a me		
	A time weighted average (TWA) has been estab		de (Safe Work Australia) of
	2 mg/m ³ . The exposure value at the TWA is the		
	when calculated over a normal 8 hour working d		
Appropriate	In industrial situations maintain the concentratio		
engineering controls	process modification, use of local exhaust ventil		
engineering controls	methods. These methods should be used in pre		
Respiratory	Where ventilation is not adequate, respiratory p		
Protection	mists. Select and use respirators in accordance		
Protection	selected in accordance with AS 1715 - Selection		
	Devices. When mists or vapours exceed the exp		
	recommended: Approved respirator with organic		
	respirator type depends on exposure levels.	vapour and dust/mist mers.	. Filler capacity and
Fue Drate stien		foty globood with olds shield	protection of enprepriate
Eye Protection	The use of a face shield, chemical goggles or sa		
	Must comply with Australian Standards AS 1337		
Hand Protection	Wear gloves of impervious material conforming		
	Selection, use and maintenance. Final choice of		
	circumstances. This can include methods of har	idling, and engineering contr	ols as determined by
	appropriate risk assessments.		
Personal Protective	Personal protective equipment should not solely		
Equipment	when all other reasonably practicable control me		
	Guidance in selecting personal protective equip	ment can be obtained from A	ustralian, Australian/New
	Zealand or other approved standards.		



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Product Name :	POTASSIUM	HYDROXIDE Solution >5%	
		Classified as hazardous	
Footwear		industrial situations is advisory, foot protection sl	
Body Protection		protective footwear - Guide to selection, care and or protective clothing should be worn, preferably	
-	against chemic	als should comply with AS 3765 Clothing for Prot	ection Against Hazardous Chemicals.
Hygiene Measures		ands before smoking, eating or using the toilet. W pment before storing or re-using.	Vash contaminated clothing and other
9. Physical and o			
Form	Liquid		
Appearance	•	ss, slightly hazy solution.	
Odour	Odourless.		
Solubility in Water	Soluble (20 °C))	
Solubility in Organic	Soluble in meth	nanol.	
Solvents	500/ /	4.50	
Specific Gravity	50% w/w appro 25% w/v appro		
рН		ous solution: ~13	
Viscosity	8.836 cP (20 °C		
Flammability	Non combustib		
Molecular Weight	56.11		
Other Information	Refractive inde	ex: 1.421	
10 Chability and			
10. Stability and Chemical Stability		s carbon dioxide from the air.	
•		oisture. High temperatures. Incompatibles.	
		acetone, aluminium, ammonium compounds, alka	line earth motals, chloringtod
Incompatible Materials	hydrocarbons, nitro organic co	halogens and halogenated compounds, metals, a ompounds. Glass, metals and various plastics.	
Hazardous	Potassium oxid	les.	
Decomposition Products			
Possibility of	May react explo	osively with maleic anhydride and nitro and chloro	o organic compounds. In contact with
	s metals, may proto to form spontar	oduce flammable and explosive hydrogen gas. M neously combustible comounds. Violent reaction v st an enclosed container.	ay react with organohalogen compounds
Hazardous	Will not occur.		
Polymerization			
11. Toxicological	I Information		
Acute Toxicity - Oral	LD50 (rat): 273	3 mg/kg (pure substance).	
Ingestion		lowed. Corrosive to mucous membranes and may	
Inhalation	Respiratory tra	Abdominal pain, nausea, vomiting, general gastro ct irritant, causes serious burns on acute contact. ughing, wheezing, shortness of breath and sneezi	Severe injury is usually avoided by the
	inflammation a	nd edema of the larynx/bronchi, pneumonitis, puli	monary edema and burning sensation.
Skin -		urns and irritation upon contact. Soreness, rednes	
Еуе		Irns and irritation upon contact. Tearing, redness, ss! Risk of corneal clouding!	pain, impaired vision are symptoms.
Carcinogenicity		f carcinogenic properties.	
Chronic Effects		of a defatting dermatitis on prolonged contact with	
Mutagenicity		inued irritation may lead to increased susceptibilit f mutagenic properties.	y to respiratory illness.
12. Ecological in	formation		
Ecological	Harmful to aqu	atic life due to pH shift.	
Information			



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Classified as hazardous	
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Ecotoxicity	No ecological data available for this product.
Environmental Protection	Avoid contaminating waterways.
Other Information	Do not allow to enter drinking water supplies, waste water

13. Disposal considerations

DisposalWhatever cannot be saved for recovery or recycling should be disposed of according to relevant local,
state and federal government regulations.

14. Transport information

Transport	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:
Information	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, Class 7; and are incompatible with food and food packaging in any quantity.
U.N. Number	1814
UN proper shipping	POTASSIUM HYDROXIDE SOLUTION
name	
Transport hazard class(es)	8
Hazchem Code	2R
Packaging Method	3.8.8RT8
Packing Group	II
EPG Number	8A1
IERG Number	37

15. Regulatory information

Regulatory	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation
Information	2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	S6
Hazard Category	Harmful,Corrosive

16. Other Information

Literature	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
References	Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons,
	Inc., NY, 1997.
	National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.
	Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
	Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
	Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'.
	Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
	Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
Contact	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:
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Empirical Formula &	KOH
Structural Formula	
	End Of MSDS



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