

Page: 1 of 6

Infosafe No™ 3

3CH9R

Issue Date : February 2018

RE-ISSUED by ACR

Product Name : **POTASSIUM HYDROXIDE Solution In Methanol**

Classified as hazardous					
4 . I					
1. Identification					
Identifier	POTASSION HYDROXIDE Solution in Methanol				
Company Name	AUSTRALIAN CHEMICAL REAGENTS (ACR) (ABN 19 008 264 211)				
Address	38 - 50 Bedford Street Gillman				
Telephone/Fax Number Recommended use of the chemical and restrictions on use	S.A. 5013 Australia Tel: (08) 8440 2000 Fax: (08) 8440 2001 Laboratory reagent.				
Other Names	Name Product Code				
Other Information	POTASSIUM HYDROXIDE 0.1M/0.1N Solution In Methanol0938POTASSIUM HYDROXIDE 0.2M/0.2N Solution In Methanol5621EMERGENCY CONTACT NUMBER:+61 08 8440 2000Business hours:8:30am to 5:00pm, Monday to Friday.				
	Australian Chemical Reagents (ACR) does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Australian Chemical Reagents (ACR) with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provision of Part V, Division 2 of the Trade Practices Act apply, the liability of Australian Chemical Reagents (ACI is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the good or acquiring equivalent goods.	าร R) ปร			
2. Hazard Identifi	cation				
GHS classification	Australia:	—			
of the	Classified as HAZARDOUS according to the criteria of the ASCC, Australian Safety and Compensation	1			
substance/mixture	Council (formly NOHSC).				
	Classified as DANGEROUS GOOD by the Australian Dangerous Goods Code.				
	Acute Toxicity - Dermal: Category 3				
	Acute Toxicity - Inhalation: Category 3				
	Acute Toxicity - Oral: Category 3				
	Specific Target Organ Toxicity - Single Exposure Category 1				
	Eye Damage/Irritation: Category 2A				
	Skin Corrosion/Irritation: Category 2				
Signal Word (s)	DANGER				
Hozord Statement	H225 Highly flammable liquid and vanour				
(s)	H301 Toxic if swallowed.				
	H311 Toxic in contact with skin.				
	H331 Toxic if inhaled.				
	H3/0 Causes damage to organs.				
	H315 Causes skin irritation				
	H319 Causes serious eve irritation.				
Pictogram (s)	Flame, Health hazard, Skull and crossbones, Exclamation mark				
	v v v v				



Page: 2 of 6

Infosafe No™	3CH9R Iss	ue Date : Febr	uary 2018	RE-IS	SUED by ACR
Product Name :	POTASSIUM HYDROXII	DE Solution I	n Methanol		
	(Classified as ha	zardous		
Precautionary statement – Prevention Precautionary statement – Response	P210 Keep away from heat/s P233 Keep container tightly P234 Keep only in original of P240 Ground/bond containe P241 Use explosion-proof el P242 Use only non-sparking P243 Take precautionary me P260 Do not breathe dust/fu P264 Wash thoroughly after P270 Do not eat, drink or sm P271 Use only outdoors or in P280 Wear protective gloves P301+P310 IF SWALLOWE P330 Rinse mouth. P303+P361+P353 IF ON SK skin with water/shower. P304+P340 IF INHALED: Re breathing. P305+P351+P338 IF IN EYE if present and easy to do. Co P309+P311 IF exposed or if P370+P378 In case of fire: L for extinction	parks/open flame closed. ontainer. r and receiving ec ectrical/ventilating tools. asures against sl me/gas/mist/vapo handling. oke when using t n a well-ventilateo s/protective clothin D: Immediately ca IN (or hair): Rem emove victim to fr S: Rinse cautiou intinue rinsing. you feel unwell: C lse water spray, c	es/hot surfaces. – N guipment. g/lighting//equipm atic discharge. urs/spray. his product. area. ng/eye protection/fa all a POISON CEN sove/Take off immed esh air and keep at sly with water for se call a POISON CEN arbon dioxide, dry	lo smoking. ent. ER or doctor/physicia iately all contaminate rest in a position con everal minutes. Remo ITER or doctor/physic chemical powder or a	an. ed clothing. Rinse nfortable for ove contact lenses, cian. appropriate foam
Precautionary statement – Storage Precautionary statement –	 P390 Absorb spillage to prevent material damage. P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool. P405 Store locked up. P406 Store in corrosive resistant/ container with a resistant inner liner. P501 Dispose of contents/container to an approved waste disposal plant. 				
Disposal					
3. Composition/i	nformation on ingredie	nts			
Chemical Characterization	Liquid				
Ingredients	<u>Name</u>	CAS	Proportion	Hazard Symbol	Risk Phrase
-	Methanol	67-56-1	99-100 %		
	Potassium hydroxide	1310-58-3	<1.2 %		
4. First-aid meas	ures				
Inhalation Ingestion	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician. Rinse mouth thoroughly with water immediately. DO NOT induce vomiting. If vomiting occurs give further				
Skin	water to achieve effective dilution. If vomiting occurs, have victim lean forward to reduce risk of aspiration. Seek immediate medical assistance. Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention				
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical assistance.				
First Aid Facilities	Maintain eyewash fountain a	nd drench facilitie	es in work area.		
Advice to Doctor	Treat symptomatically based	on judgement of	doctor and individu	al reactions of the pa	itient.
Other Information	For advice, contact a Poison 766) or a doctor.	s Information Cer	itre (Phone eg Aus	ralia 13 1126; New Z	ealand 0800 764
5. Fire-fighting m	neasures				
Specific Methods	Caution: Use of water spray Small fire: Use foam, dry che Large fire: Use foam, fog or If safe to do so, move undan of water until well after the fir	when fighting fire mical, CO2 or wa water spray - Do l naged containers e is out. Avoid ge	s may be inefficient tter spray. NOT use water jets from the fire area. tting water inside th	Cool containers with f ne containers.	flooding quantities



Page: 3 of 6

Infosafe No™	3CH9R Issue	Date : Febru	ary 2018		RE	-ISSUED by ACR	
Product Name :	POTASSIUM HYDROXIDE Solution In Methanol						
	Cla	ssified as haza	ardous				
Specific hazards arising from the chemical Hazchem Code	HIGHLY FLAMMABLE: This product has a low flash point. Will be easily ignited by heat, sparks or flames. Vapours will form explosive mixtures with air. Vapours will travel to source of ignition and flash back. Many vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode on heating. Fire will produce irritating, poisonous or corrosive gases. Vapours from run-off may create an explosion hazard. •3W						
Precautions in connection with Fire	Wear positive pressure SCBA a Structural firefighter's uniform is	Wear positive pressure SCBA and fully encapsulating, gas-tight suit when handling these substances. Structural firefighter's uniform is NOT effective for these materials.					
6. Accidental rel	ease measures						
Spills & Disposal	Eliminate all ignition sources (no handling this product must be ea do so. Prevent entry into waterw Vapour suppressing foam may b divert vapours. Absorb spill with earth, sand or material and place it in loosely-or SEEK EXPERT ADVICE ON HA	o smoking, flare arthed. Do NOT /ays, drains, cor be used to contr other non-comb covered metal o NDLING AND E	s, sparks or touch or wa fined areas ol vapours. ustible mate r plastic cor DISPOSAL.	r flame) within alk through th s. Water spray erial. Use cle ntainers for la	n at least 5(nis product. may be use an, non-spa ter disposa	Om. All equipment in Stop leak if safe to ed to knock down or arking tools to collect II.	
Personal Protection	Wear protective clothing specific	ed for normal op	perations (s	ee Section 8)			
7. Handling and	storage						
Conditions for safe storage, including any incompatabilities	Store in cool place and out of di heat or ignition. Store away fror sealed and protected against ph	Store in cool place and out of direct sunlight. Store in well ventilated area. Store away from sources of heat or ignition. Store away from oxidizing agents. Store away from acids. Keep containers securely sealed and protected against physical damage.					
Storage Regulations	s Refer Australian Standard AS 19 liquids'.	940 - 2017 'The	storage and	d handling of	flammable	and combustible	
8. Exposure con	trols/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	
	Methanol Potassium hydroxide	328	250	262 2	200	peak limitation	
Other Exposure Information	TWA: 2 mg/m3 - peak limitation - potassium hydroxide - Safe Work Australia. Peak Limitation - a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes. A time weighted average (TWA) has been established for Methyl alcohol [Methanol] (Safe Work Australia) of 262 mg/m ³ , (200 ppm). The corresponding STEL level is 328 mg/m ³ , (250 ppm). The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. Note: Absorption through the skin may be a significant source of exposure.						
Appropriate engineering control	In industrial situations maintain s process modification, use of loc methods	the concentration al exhaust venti	ons values to lation, capti	pelow the TW uring substar	A. This ma ices at the	y be achieved by source, or other	
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and						
Eye Protection	The use of a face shield, chemic Must comply with Australian Sta	cal goggles or s ndards AS 1337	afety glasse 7 and be se	es with side s lected and us	hield protected	ction as appropriate. rdance with AS 1336.	
Hand Protection	Hand protection should comply maintenance.	with AS 2161, C	occupationa	I protective g	loves - Sele	ection, use and	



Page: 4 of 6

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Infosafe No™	3CH9R	Issue Date : February 201	8 RE-ISSUED by ACR
Product Name : I	POTASSIUM HYDR	OXIDE Solution In Metha	nol
		Classified as hazardous	
Personal Protective Equipment Body Protection Hygiene Measures	Final choice of persona to risk assessments und Clean clothing or protect against chemicals shou Always wash hands bef protective equipment be	I protective equipment will depend dertaken. tive clothing should be worn, pre- ld comply with AS 3765 Clothing ore smoking, eating or using the efore storing or re-using.	d on individual circumstances and/or according ferably with and apron. Clothing for protection for Protection Against Hazardous Chemicals. toilet. Wash contaminated clothing and other
9. Physical and c	hemical properties		
Form	Liquid		
Appearance	Clear, colourless solution	on.	
Odour	Alcohol.		
Boiling Point	64°C		
Solubility in Water	Soluble.		
Specific Gravity	~0.8		
рН	12		
Vapour Density (Air=1) Flash Point	1.4 11°C		
Flammability	Flammable liquid.		
Flammable Limits -	6%		
Flammable Limits - Upper	36%		
10. Stability and	reactivity		
Chemical Stability	Stable.		
Conditions to Avoid	Heat and ignition source	es.	
Incompatible Materials	Oxidising agents, perox	ides, acids, acid chlorides, acid a	anhydrides, alkali metal, ammonia.
Hazardous Decomposition Products	Oxides of carbon.		
Hazardous Polymerization	Will not occur.		
11. Toxicological	Information		
Ingestion	Effects are the same as susceptibility to the toxic following ingestion of 50 range of minimum lethal easily aspirated (breath and comparison to relat of fluid in the lungs (pul A slight irritant to the mini- vapour concentrations as exposure. At first, methal as nausea, headache, with period with no obvious as This latent period is the Symptoms such as head abdominal and muscular usually due to respirato include reduced reactive blindness. Depending of recover completely or mini- effects.	those described for 'Inhalation' b c effects of methanol (from a fatal 00 mL of the same solution). In get I dose for untreated cases of met ed) into the lungs) during ingestic ed alcohols. Aspiration of methar monary edema). Ingestion is not a ucous membranes. Methanol is to at room temperature. Inhalation is anol causes mild central nervous comiting, dizziness, in coordinatio symptoms follows (typically 8-24 H n followed by development of met dache, dizziness, nausea and vour r pain and difficult periodic breath ry failure, may occur if medical tree ty and/or increased sensitivity to n the severity of poisoning and th hay have permanent blindness, vi	below. There is a wide range of individual I dose of 15 mL of 40% methanol, to survival eneral, 300 to 1000 mg/kg is considered the thanol poisoning. Methanol can probably be on or vomiting, based on its physical properties nol could cause a potentially fatal accumulation a typical route of occupational exposure. Divic and can very readily form extremely high a the most common route of occupational system (CNS) depression with symptoms such on and an appearance of drunkenness. A time hours, but may last several hours to 2 days). tabolic acidosis and severe visual effects. miting, followed in more severe cases by hing have been observed. Coma and death, eatment is not received. Visual effects may light, blurred, double and/or snowy vision, and he promptness of treatment, survivors may ision disturbances and/or nervous system



Page: 5 of 6

Infosafe No™	3CH9R	Issue Date : February 2018	RE-ISSUED by ACR
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		Classified as hazardous	
Skin	Methanol may be mo information was locat cracked. Skin absorp	derately irritating to the skin, based or ted. Methyl alcohol is a defatting agent otion can occur; symptoms may paralle	n unconfirmed animal information. No human t and may cause skin to become dry and el inhalation exposure.
Eye	Methanol is a mild to available. Inhalation, vision, including blind	moderate eye irritant, based on anima ingestion or skin absorption of methar dness. Refer to 'Inhalation' above for a	al information. There is no human information nol can cause significant disturbances to dditional information.
Chronic Effects	Exposure can cause kidneys, gastrointesti	damage to the eyes, damage to the living in a listurbances. May cause convulsion	ver, damage to the heart, damage to the ons.
12. Ecological in	formation		
Persistence and degradability	Abiotic degradation: Biologic degradation: Readily biodegradabl Degradability: BOD5: 0.60 - 1.12 a/	Slow degradation. (air) : BOD 76 % von TOD /5 d (closed botti le (reduction: DOC >70 %; BOD >60 %	le test). %; BOD5 to COD >50 %).
Bioaccumulative	Distribution: log P(o/v	w): -0.74.	
Potential	No bioaccumulation i	is to be expected (log $P(o/w < 1)$).	
13. Disposal con	siderations		
Disposal	Dispose of according	to relevant local, state and federal go	vernment regulations.
14. Transport info	ormation	Class Q (Flowmakis Linuid) are incom	
Iransport Information	following:	Class 3 (Flammable Liquid) are incom	ipalible in a placard load with any of the
	Class 1, Class 2.1, if Class 5, Class 6, if th Dangerous Goods of any of the following: - Class 6 dangerous go incompatible with foo	both the Class 3 and Class 2.1 dange ne Class 3 dangerous goods are nitron Class 6 Toxic and Infectious Substand - Class 1, Class 3, if the Class 3 dange oods are cyanides and the Class 8 dan od packaging in any quantity.	rous goods are in bulk, Class 2.3, Class 4.2, nethane, Class 7. ces are incompatible in a placard load with erous goods are nitromethane, Class 8, if the ngerous goods are acids, and are
U.N. Number	1992		
UN proper shipping name	FLAMMABLE LIQUID	D, TOXIC, N.O.S (Contains methano	l)
Transport hazard class(es)	3		
Sub.Risk	6.1		
Hazchem Code	•3W		
Packaging Method	3.8.3RT1,RT7		
Packing Group	II		
EPG Number	3A3		
IERG Number	16		
15. Regulatory in	formation		

Poisons Schedule S6

Hazard Category Toxic, Highly Flammable

16. Other Information

Literature	Australian Health Ministers' Advisory Council, 'Standard for the Uniform Scheduling of Drugs and
References	Poisons No.15', AGPS, Canberra 2000.
	Lewis, Richard J. Sr.'Hawley's Condensed Chemical Dictionary 12th. Ed.', Rev., Van Nostrand Reinhold, NY, 1993.
	National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra, 1998.
	South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.
	Standards Australia, 'Dangerous Goods - Initial Emergency Response Guide', 1997. Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]',



Page: 6 of 6

Infosafe No™	3CH9R	Issue Date : February 2018	RE-ISSUED by ACR		
Product Name :	POTASSIUM HYDROXIDE Solution In Methanol				
		Classified as hazardous			
Contact Person/Point	AGPS, Canberra Worksafe Austra Canberra 1999. Worksafe Austra [NOHSC:2012(1) Worksafe Austra Environment [NC Paul McCarthy F All information p knowledge availa subject to chang no warranty eithe contained herein accuracy or for a liability for relian. End Of MSDS.	a 1999. Ilia, 'List of Designated Hazardous Substances [NOH Ilia, 'List of Designated Hazardous Substances [NOH 994)]', AGPS, Canberra 1994. Ilia, 'National Exposure Standards for Atmospheric (DHSC:1003(1995)]', AusInfo Department of Finance Ph. (08) 8440 2000 DISCLAIMER STATEMENT: rovided in this data sheet or by our technical represe able to us. However, since data, safety standards ar e and the conditions of handling and use, or misuse er expressed or implied, with respect to the complete Australian Chemical Reagents (ACR) accepts no r any results that may be obtained by customers from ce on information provided in this data sheet or by o	HSC:10005(1999)]', AGPS, /orkplace Substances Contaminants in the Occupational and Administration, Canberra 1995. entatives is compiled from the best nd government regulations are e, are beyond our control, we make eness or accuracy to the information responsibility whatsoever for its using the data and disclaims all our technical representatives.		
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