

Infosafe No™	3CHCP	Issue Date : September 2016	RE-ISSUED by ACR
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Product Name : **AMMONIA TEST Solution**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	AMMONIA TEST Solution
<b>Product Code</b>	0935
<b>Company Name</b>	AUSTRALIAN CHEMICAL REAGENTS (ACR) (ABN 19 008 264 211)
<b>Address</b>	38 - 50 Bedford Street Gillman S.A. 5013 Australia
<b>Telephone/Fax Number</b>	Tel: (08) 8440 2000 Fax: (08) 8440 2001
<b>Recommended use of the chemical and restrictions on use</b>	Laboratory chemical.
<b>Other Information</b>	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business 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 provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Australian Chemical Reagents (ACR) is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Corrosive to Metals: Category 1 Skin Corrosion/Irritation: Category 1A Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1 Acute Toxicity - Dermal: Category 4 Eye Damage/Irritation: Category 1 Germ Cell Mutagenicity: Category 2 Acute Toxicity - Oral: Category 3 STOT Repeated Exposure Category 2
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H290 May be corrosive to metals. H301 Toxic if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H341 Suspected of causing genetic defects. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
<b>Pictogram (s)</b>	Skull and crossbones, Health hazard, Corrosion, Environment



<b>Precautionary statement – Prevention</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. 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. P280 Wear protective gloves/protective clothing/eye protection/face protection. P273 Avoid release to the environment.
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<b>Precautionary statement – Response</b>	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P390 Absorb spillage to prevent material damage.
<b>Precautionary statement – Storage</b>	P405 Store locked up.
<b>Precautionary statement – Disposal</b>	P406 Store in corrosive resistant/... container with a resistant inner liner. P501 Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid				
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Sodium hydroxide	1310-73-2	12 %		
	Potassium iodide	7681-11-0	3.5 %		
	Mercuric chloride	7487-94-7	1.25 %		
	Water to make a total of 100%	7732-18-5	-		

### 4. First-aid measures

<b>Inhalation</b>	Remove from exposure, rest and keep warm. If breathing has stopped, apply artificial respiration. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Do not use direct mouth-to-mouth. Seek urgent medical assistance.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Avoid vomiting (risk of perforation!). Never give anything by mouth to an unconscious person. Do not attempt to neutralize. If swallowed, do NOT induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration into lungs. If vomiting occurs give further water to achieve effective dilution. If breathing but unconscious, place in the recovery position. Keep airways free. Seek immediate medical assistance.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash clothing before reuse. If rapid recovery does not occur, obtain medical attention
<b>Eye contact</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical assistance.
<b>First Aid Facilities</b>	Maintain eyewash fountain, safety shower and a general washing facility in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

### 5. Fire-fighting measures

<b>Specific Methods</b>	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.
<b>Specific hazards arising from the chemical</b>	Material does not burn.
<b>Hazchem Code</b>	2XE

### 6. Accidental release measures

<b>Personal Precautions</b>	Avoid contact with skin, eyes. Use personal protective equipment listed in Section 8. Evacuate the area of all non-essential personnel.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)

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<b>Clean-up Methods - Small Spillages</b>	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.
<b>Environmental Precautions</b>	Prevent from entering into drains, ditches, rivers or the sea.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid contact with eyes, skin, and clothing. If ingested, seek medical advice immediately and show the container or the label. Wear appropriate protective clothing. Contaminated clothing and other protective equipment should be removed and washed before storage or re-use. Wash thoroughly after handling. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, alkalis, organic materials and moisture.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the original, tightly closed container, in a cool, dry, well-ventilated area away from sources of heat, moisture and incompatible materials. Protect from physical damage, direct sunlight, air and moisture. Keep away from strong acids, metals, flammable liquids, ammonium salts, organic halogens, organic materials and foodstuffs. Do not allow contact with water. Keep containers closed when not in use.
<b>Corrosiveness</b>	Corrosivity to Metals: Corrosive to aluminium, tin, zinc, copper, brass and bronze. Corrosive to steel at elevated temperatures (above 40 °C). Not corrosive to nickel. Slowly attacks glass at room temperature.
<b>Storage Regulations</b>	Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.
<b>Unsuitable Materials</b>	Aluminium, magnesium, tin, zinc or galvanised containers. Do not use die-cast zinc or aluminium bungs.

## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Potassium iodide			1	0.1	As Iodine Peak limitation
	Mercuric chloride			0.025	0.003	Mercury, inorganic divalent compounds (as Hg)
<b>Other Exposure Information</b>	<p>A time weighted average (TWA) has been established for Sodium hydroxide (Safe work Australia) of 2 mg/m<sup>3</sup> (Peak limitation).</p> <p>A time weighted average (TWA) has been established for Mercuric chloride (Safe work Australia) of 0.025 mg/m<sup>3</sup> (0.003 ppm)</p> <p>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.</p> <p>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.</p>					
<b>Appropriate engineering controls</b>	Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted average). 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.					
<b>Respiratory Protection</b>	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 respirator type depends on exposure levels.					
<b>Eye Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.					
<b>Hand Protection</b>	Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Excellent: NR latex, vinyl. Good: Neoprene gloves Poor: Leather					

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<b>Personal Protective Equipment</b>	gloves. Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Specific Gravity</b>	1.097
<b>Flammability</b>	Non combustible material.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable at room temperature in tightly closed containers under ordinary conditions of use and storage.
<b>Conditions to Avoid</b>	Incompatible materials.
<b>Incompatible Materials</b>	Many organic and inorganic chemicals, such as strong acids, strong bases, alkali metals, water, halogens or metals, such as aluminium, tin, or zinc.

## 11. Toxicological Information

<b>Ingestion</b>	Corrosive and highly toxic. Causes severe irritation and severe corrosive burns to the mucous membranes of the mouth, throat, oesophagus, stomach and gastrointestinal tract. Swallowing can result in severe pain, burning of the mouth, throat and oesophagus, nausea, vomiting, diarrhoea, abdominal pain, swelling of the larynx and subsequent suffocation, severe and permanent damage to the digestive tract, perforation of the gastrointestinal tract (oesophagus and stomach), bleeding, severe scarring of tissue, shock, fall in blood pressure, cardiovascular collapse, collapse, coma and possible death. Burns to the oesophageal tissue may progress to stricture formation. Damage may appear days after exposure.
<b>Inhalation</b>	Causes irritation to respiratory tract. May result in respiratory irritation, with coughing, sneezing, runny nose, sore throat, burning sensation, tightness of chest, dyspnoea (difficult breathing) and possible pulmonary oedema (severe, life-threatening lung injury), chemical pneumonitis, emphysema, irreversible obstructive lung disease.
<b>Skin</b>	Corrosive. Causes severe skin irritation and severe skin burns, which will result in redness, itchiness, pain, swelling and necrosis. May cause deep, penetrating ulcers of the skin and permanent scarring. Penetration to deeper layers of skin and corrosion will continue until removed. Pain and sign of burns may be delayed, beginning with aching for minutes to hours. May be harmful if absorbed through the skin. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale colour.
<b>Eye</b>	Corrosive! Causes severe eye irritation and severe burns that may result in redness, stinging, pain, lacrimation (tearing), blurred vision, mild scarring, blistering, loss of colour vision (blue vision), corneal damage, corneal oedema, photophobia, chemical conjunctivitis, corneal burns, necrosis, disintegration, and severe scarring. In severe cases, there is progressive ulceration and clouding of eye tissue which may lead to permanent blindness. Possible late developments may include glaucoma and cataracts. Risk of blindness!
<b>Carcinogenicity</b>	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Mercuric chloride)

## 12. Ecological information

<b>Ecotoxicity</b>	Quantitative data on the ecological effect of this product are not available. Toxic effect on fish and plankton. Harmful effect due to pH shift. Death of fish possible.
<b>Environmental Protection</b>	Do not allow to enter waters, waste water, or soil!

## 13. Disposal considerations

<b>Disposal Considerations</b>	Dispose of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Dangerous goods of Class 8 (Corrosive) 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
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<b>U.N. Number</b>	dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity. 2922
<b>UN proper shipping name</b>	CORROSIVE LIQUID, TOXIC, N.O.S. - (Sodium hydroxide, Mercuric chloride)
<b>Transport hazard class(es)</b>	8
<b>Sub.Risk</b>	6.1
<b>Hazchem Code</b>	2XE
<b>Packaging Method</b>	3.8.8
<b>Packing Group</b>	II
<b>EPG Number</b>	8C1
<b>IERG Number</b>	37

## 15. Regulatory information

**Poisons Schedule** S6

## 16. Other Information

<b>Literature References</b>	<p>'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015.</p> <p>Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.</p> <p>National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.</p> <p>Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.</p> <p>Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.</p> <p>Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.</p> <p>Safe Work Australia, 'Hazardous Substances Information System, 2005'.</p> <p>Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.</p> <p>Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.</p>
<b>Contact Person/Point</b>	<p>Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b></p> <p>All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Australian Chemical Reagents (ACR) accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.</p> <p>...End Of MSDS...</p>

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