

Infosafe No™ VARKU	Issue Date : July 2016	ISSUED by HUNTERST
Product Name <b>AMMONIA SOLUTION (WITH 10-25% AMMONIA)</b>		

## 1. Identification

<b>GHS Product Identifier</b>	AMMONIA SOLUTION (WITH 10-25% AMMONIA)
<b>Company Name</b>	Hunters Products (TAS) Pty. Ltd. (ABN 004 601 263)
<b>Address</b>	60 Gleadow Street INVERMAY TAS 7248 Australia
<b>Telephone/Fax Number</b>	Tel: 03 6331 4755 Fax: 03 6334 1065
<b>Emergency phone number</b>	0407 610 542
<b>Recommended use of the chemical and restrictions on use</b>	Water treatment, chemical reagent

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Skin Corrosion/Irritation: Category 1B STOT Single Exposure: Category 3 (respiratory tract irritation)
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.
<b>Precautionary statement – General</b>	P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Corrosion, Exclamation mark, Environment



<b>Precautionary statement – Prevention</b>	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
<b>Precautionary statement – Storage</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
<b>Precautionary statement – Disposal</b>	P501 Dispose of contents/container in accordance with local regulations.

## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Ammonia	7764-41-7	10-30 %w/w
	Water	7732-18-5	To 100% w/w

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## 4. First-aid measures

<b>First Aid Measures</b>	If poisoning occurs contact a doctor or Poisons Information Centre Phone 131126.
<b>Inhalation</b>	Move to fresh air and remove contaminated clothing. Allow patient to assume a comfortable position and keep warm. Apply artificial respiration if patient is not breathing. Seek medical attention.
<b>Ingestion</b>	If swallowed immediately rinse mouth out with water. Drink copious amounts of water to dilute. DO NOT induce vomiting. Seek medical advice.
<b>Skin</b>	Remove contaminated clothing. Wash affected areas with soap and water. For gross contamination, immediately drench with water. Remove and launder contaminated clothing before reuse. Seek medical attention if Irritations develop.
<b>Eye contact</b>	Immediately rinse eyes with fresh running water for 15 minutes. Hold eyelids open. Seek urgent medical attention.
<b>First Aid Facilities</b>	Use should be made of an on-site approved first aid kit if required in the first instance until medical assistance is forthcoming.
<b>Advice to Doctor</b>	Treat symptomatically. Show this MSDS to the medical practitioner.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Not combustible material. Use water spray, water fog, foam, dry agent (carbon dioxide, dry chemical powder).
<b>Hazards from Combustion Products</b>	Decomposes to form nitrogen, water with small amounts of nitrogen dioxide and ammonium nitrate. Fumes may be toxic and irritating.
<b>Specific Methods</b>	Fire fighters to wear full body protective clothing with breathing apparatus. Deluge with water to cool containers.
<b>Hazchem Code</b>	2R

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Slippery when spilt. Clean up immediately.
<b>Personal Protection</b>	Wear protective equipment to prevent skin and eye contact and breathing in vapors.
<b>Environmental Precautions</b>	Prevent run off into drains and waterways. If contamination of sewer or waterways has occurred advise local emergency services. Use inert absorbent (soil, sand or other inert material). Collect and seal containers for disposal according to statutory regulations.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid skin and eye contact and breathing in vapour.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool dry, well ventilated location away from direct sunlight. Store away from strong oxidising agents, foodstuffs and sources of heat and ignition. Store away from incompatible materials. This material is a scheduled poison S6 and must be stored in accordance with the relevant regulations.
<b>Unsuitable Materials</b>	Materials to avoid: Corrosive to copper, nickel, tin and zinc. Incompatible with oxidizing agents, reacts exothermically with strong mineral acids.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	ASCC exposure limits: No value assigned. However Ammonia TWA: 25 ppm 17mg/m <sup>3</sup> ; STEL: 35 ppm 24mg/m <sup>3</sup>
<b>Biological Limit Values</b>	None established.
<b>Appropriate engineering controls</b>	Ensure adequate ventilation is handy. Use with local exhaust system or while wearing a respirator. Keep containers closed when not in use.
<b>Personal Protective Equipment</b>	Safety glasses / face shield are necessary; ensure an eyebath is nearby and accessible. Avoid all contact. Wear overalls, impervious gloves, splash

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apron and rubber boots. Where appropriate wear respirator equipment that complies with AS1715 and AS1716.

## 9. Physical and chemical properties

Appearance	Clear Colourless liquid.
Odour	Sharp, irritating pungent
Boiling Point	18-37°C
Solubility in Water	Absolutely soluble in water.
Specific Gravity	0.88-0.92 g/ml
pH	11.7 (1%)
Flash Point	NA
Flammable Limits - Lower	16%
Flammable Limits - Upper	25%

## 10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Heat, flames and other ignition sources.
Possibility of hazardous reactions	Ammonia gas is lighter than air, fumes will rise upwards. Corrosive to copper, nickel, tin and zinc. Incompatible with oxidizing agents, reacts exothermically with strong mineral acids.

## 11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 350 mg/kg
Ingestion	Swallowing may result in nausea, vomiting, diarrhoea, abdominal pain, gastrointestinal corrosion, shock and collapse.
Inhalation	Vapour is irritating to mucous membranes and respiratory tract. Inhalation of high vapour concentrations may cause severe breathing difficulties, chest pain and lung damage including pulmonary oedema possibly leading to death.
Skin	May cause severe irritation or burns.
Eye	Severe eye irritant. Corrosive can cause corneal burns. Contact with eyes may result in permanent eye injury.
Serious eye damage/irritation	Severe irritant (rabbit).

## 12. Ecological information

Ecological Information	Avoid contaminating waterways. Aquatic Toxicity: Toxic to aquatic organisms. 96 hr LC50 (rainbow trout): 0.53 mg/L (for ammonia).
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## 13. Disposal considerations

Disposal Considerations	Disposal in accordance with local waste management regulations.
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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	2672

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<b>UN proper shipping name</b>	AMMONIA SOLUTION
<b>Transport hazard class(es)</b>	8
<b>Hazchem Code</b>	2R
<b>Packing Group</b>	III
<b>EPG Number</b>	8A1
<b>IERG Number</b>	37

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## 15. Regulatory information

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<b>Poisons Schedule</b>	S6
<b>Hazard Category</b>	Corrosive, Dangerous for the environment

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## 16. Other Information

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<b>Signature of Preparer/Data Service</b>	Technical Manager 0407 610 542
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<b>Technical Contact Numbers</b>	Emergency Advice All Hours: Technical Manager: 0407 610 542 Mon-Fri 8am - 6pm Poisons Information Centre: 13 11 26 - 24hrs Transport/Fire Emergency: 000 (Emergency services)
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<b>Other Information</b>	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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