

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: March 2017  
Version No: 1

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Ammonia / Ammonium Chloride Buffer for Water Hardness pH 10  
Product Code: 4123  
Other Names: Nil  
Uses: Analytical Reagent

Supplier: Australian Chemical Reagents  
38-50 Bedford Street Gillman SA 5013

Contacts: Telephone: 61 08 84402000  
Fax: 61 08 84402001  
Emergency Phone: 61 08 84402000 Mon – Fri 8:30am – 5:00pm

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## 2. HAZARDS INFORMATION

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**GHS Classification** Skin Corrosion/Irritation: Category 1  
Specific Target Organ Toxicity–Single Exposure: Category 3  
Hazardous to the Aquatic Environment - Acute Hazard: Category 1

**Signal Word(s)** DANGER  
**Pictogram(s)**



**Hazard Statement (s)** H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.

**Precautionary Statement(s)  
Preventative** P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash 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.

**Response** 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.  
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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.

<b>Storage</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
<b>Disposal</b>	P501 Dispose of contents/container to an approved waste disposal plant.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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#### **Ingredients :**

<b>Chemical Entity</b>	<b>CAS No</b>	<b>Proportion</b>
Ammonium chloride	[631-61-8]	7.0%
Ammonium hydroxide	[1336-21-6]	13.5%
Water	[7732-18-5]	to 100%

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### 4. FIRST AID MEASURES

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Safety showers and eye wash facilities should be provided.

#### **Swallowed :**

If conscious wash out mouth with water. Seek medical advice. Show this SDS to medical practitioner.

#### **Eye :**

Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this SDS to medical practitioner.

#### **Skin :**

Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this SDS to medical practitioner. Launder clothing before reuse.

#### **Inhaled :**

Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this SDS to a doctor.

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### 5. FIRE FIGHTING MEASURES

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#### **Suitable Extinguishing Media:**

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### **Hazards From Combustion Products:**

Solutions will not burn or support combustion. Decomposition products include ammonia fumes.

#### **Precautions For Fire Fighters and Special Protective Equipment:**

Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fires.

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### 6. ACCIDENTAL RELEASE MEASURES

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#### **Emergency procedures:**

Prevent from entering waterways. Ventilate area. Restrict access to area. Remove chemicals that can react with the spilled material.

#### **Methods and materials for containment and clean up:**

Ventilate area. Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

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### 7. HANDLING AND STORAGE

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#### **Precautions for Safe Handling:**

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

**Conditions for Safe Storage:**

Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**National Exposure Standards:**

Safe Work Australia – Ammonia TWA - 17 mg/m<sup>3</sup> STEL - 24 mg/m<sup>3</sup>

**Biological Limit Values:** No data available.

**Engineering Controls:**

Do not use in confined spaces. Use only chemical fume hood.

**Personal Protective Equipment (PPE):**

The use of nitrile or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance :</b>	Clear liquid
<b>Odour:</b>	Ammonia
<b>pH:</b>	12
<b>Boiling Point (°C) :</b>	Not applicable
<b>Freezing/melting Point:</b>	Not applicable
<b>Vapour Pressure (mm of Hg @ 25°C) :</b>	Not applicable
<b>Vapour Density:</b>	Not applicable
<b>Specific Gravity :</b>	1
<b>Flash Point (°C) :</b>	Not flammable
<b>Flammability Limits (%) :</b>	Not flammable
<b>Solubility in Water (g/L) :</b>	Soluble

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**10. STABILITY AND REACTIVITY**

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**Chemical stability:**

Stable.

**Conditions to avoid:**

Heat.

**Incompatible materials:**

Bases, iodine, strong acids, oxidizing agents

**Hazardous decomposition products:**

Refer to section 5 (Fire Fighting Measures).

**Hazardous reactions:**

Hazardous polymerization will not occur.

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**11. TOXICOLOGICAL INFORMATION**

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**Health Effects:**

**Swallowed :** Causes burns. May be harmful if swallowed. Ammonium hydroxide orl-hmn LDLo 43mg/kg.

**Eye :** Destructive to eye tissue. Ammonium hydroxide eye-rbt 750 ug sev. eye-rbt 100mg rinse sev.

**Skin :** Causes burns. May be harmful if absorbed through skin.

**Inhaled :** May be harmful if inhaled. May cause burning sensation, coughing, wheezing. Ammonium Hydroxide ihl-hmn LCLo 5000ppm

**Chronic Effects:**

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity:**

No data available. Avoid release to the environment.

**Persistence and degradability:**

No data available.

**Mobility:**

No data available.

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## 13. DISPOSAL CONSIDERATIONS

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Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

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## 14. TRANSPORT INFORMATION

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**UN Number:** 2672

**UN Proper Shipping Name:** AMMONIA SOLUTION 10 to 35%

**Class and subsidiary risk(s):** 8

**Packing Group:** II

**Hazchem Code:** 2P

**Special precautions for user :** Nil

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## 15. REGULATORY INFORMATION

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**Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):**

Schedule 6

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## 16. OTHER INFORMATION

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