

AUSTRALIAN CHEMICAL REAGENTS
SAFETY DATA SHEET

Date Prepared: September 2021
Version No: 5

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Ammonia Solution 5% w/w
Product Code: 0408
Other Names: Nil
Uses: Analytical Reagent

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

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2. HAZARDS INFORMATION

GHS Classification

Skin Corrosion/Irritation: Category 1B
Serious Eye Damage/Irritation: Category 1
Corrosive to metals: Category 1
Specific Target Organ Toxicity – Single Exposure (Respiratory Tract)
Category 3

Signal Word(s) Pictogram(s)

DANGER



Hazard Statement (s)

H290 May be corrosive to metals
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary Statement(s) Preventative

P234 Keep only in original container
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.
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.
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.
P310 Immediately call a POISON CENTER or doctor/physician.

Storage

P405 Store locked up.
P406 Store in corrosive resistant/... container with a resistant inner liner.
P403+P233 Store in a well ventilated place. Keep container tightly closed.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Ammonium hydroxide	[1336-21-6]	5%
Water	[7732-18-5]	to 100%

4. FIRST AID MEASURES

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.

5. FIRE FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:

Safe Work Australia – Ammonia TWA - 17 mg/m³ STEL - 24 mg/m³

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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.

11. TOXICOLOGICAL INFORMATION

Health Effects:

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

Eye : May be destructive to eye tissue. Ammonium hydroxide eye-rbt 750 ug sev. eye-rbt 100mg rinse sev.

Skin : May causes burn. 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

Ecotoxicity:

No data available. Avoid release to the environment.

Persistence and degradability:

No data available.

Mobility:

No data available.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

UN Number: None Allocated

UN Proper Shipping Name: None Allocated

Class and subsidiary risk(s): None Allocated

Packing Group: None Allocated

Hazchem Code: None Allocated

Special precautions for user : Nil

15. REGULATORY INFORMATION

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

Schedule 6

16. OTHER INFORMATION

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