



## SAFETY DATA SHEET

# 25% AMMONIUM NITRATE SOLUTION

### Identification of the Material & Supplier

Product Name: AN 25  
Other Names: Aqueous solution of AN. Ammonium nitrate solution.  
Recommended Use: Fertilizer  
Supplier: Summit Fertilizers  
29 Ocean St  
Kwinana Beach WA 6167  
Telephone: 9439 8999

### Hazards Identification

Hazards Classification: AN 25 is not classified as hazardous according to NOHSC criteria  
Risk Phrase: AN 25 is not classified as a Dangerous Good according to the ADG Code

### Composition/Information on Ingredients

Chemical Identity:  $\text{NH}_4\text{NO}_3 + \text{H}_2\text{O}$   
Proportion of Ingredients: 30-60% Ammonium nitrate  
40-70% Water

CAS Number

### First Aid Measures

Eye Contact: Immediately flush with fresh water for at least 15 minutes. Hold eyes open while flushing with water. Seek medical attention if irritation persists.  
Skin Contact: Immediately remove contaminated clothing and shoes. Flush skin with fresh water for at least 15 minutes. Use soap if available or follow by flushing with soap and water. Do not reuse contaminated clothing without laundering. Seek medical attention if irritation persists.  
Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration. Seek medical attention immediately.  
Ingestion: If victim is conscious and alert, give plenty of water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek medical attention immediately.

### Fire Fighting Measures

Flammability: Not flammable.  
Suitable Extinguishing Media: Water spray, foam or CO<sub>2</sub>.  
Hazards from Combustion Products: May evolve toxic gases of ammonia and then oxides of nitrogen when heated to decomposition. May become explosive when heated to dryness in the presence of organic materials.  
Hazchem Code: None allocated.



## Accidental Release Measures

Emergency Procedures	Isolate the area and deny entry to nonessential personnel. Emergency responders and/or clean up personnel should wear appropriate protective clothing and equipment.
Methods and Materials for Containment & Cleanup	Prevent from entering drains or waterways. Confine spillage with earth bunds. Collect material and contaminated soil promptly.

## Handling & Storage

Precautions for Safe Handling	Do not mix this product with any other product except under specific advice from the manufacturer. Carefully read the product label before using. Always wash hands, eyes and exposed skin after contact. Do not eat, drink or smoke when handling this product.
Conditions for Safe Storage	Do not store in direct sunlight – containers may become brittle. Store in a cool dry place. Keep out of reach of children and pets. Seek medical advice upon exposure.
Storage Incompatibilities	Do not store near strong oxidizing substances, acids and alkalis.

## Exposure Controls/Personal Protection

National Exposure Controls	When pouring or spraying this product, avoid inhalation of mists and aerosols. Wear gloves and goggles when pouring this product. When exposed to spray mists, wear a good quality respirator suitable for this application.
Engineering Controls	Store product in a cool, dry place in containers suitable for storage of liquid fertilizers. Use corrosion resistant materials for equipment exposed to the product.
Personal Protective Equipment	When spraying this product, wear appropriate protective equipment for eyes, lungs and skin. Wash contaminated equipment and clothing before reuse.

## Physical & Chemical Properties

Appearance	Clear liquid
Odour	Minor
pH of 10% Solution	6-7
Vapour Pressure	Same as water
Boiling Point	105C
Melting Point	No data
Solubility	Completely soluble in water.
Specific Gravity	1.25
Bulk Density	

## Stability & Reactivity

Stability	Evolves noxious ammonia gas when mixed with alkalis.
Reactivity	May become explosive when heated to dryness in the presence of organic materials.
Incompatible Materials	Do not store near strong oxidizing substances, acids and alkalis.
Decomposition Products	Likely to evolve ammonia upon prolonged storage.



## Toxicological Information

### Health Effects

This product is an irritant with low to moderate toxicity.

- Eye Irritant. Exposure may result in pain and redness
- Inhalation Irritant. Exposure may result in nausea, headache, pain and gastrointestinal irritation.
- Skin Irritant. Prolonged and repeated contact may result in skin rash and dermatitis.
- Ingestion Moderate toxicity. Ingestion may result in nausea, vomiting and diarrhea.

### Toxicity Data

No specific data for solution.  
Ammonium nitrate LD50(oral): 4,500 mg/kg (rat).

## Ecological Information

### Ecotoxicity

Do not let this product enter drains, water bodies and sewerage systems. This product may be toxic to aquatic life but may stimulate algae growth. This product contains nitrogen and other nutrients which should be excluded from surface and ground water.

### Mobility

May leach into groundwater if uncontrolled release to soil.

### Persistence & Degradability

Will evaporate water content readily.

### Bioaccumulative Potential

Unknown

## Disposal Considerations

### Disposal Methods & Containers

Dispose of on a farm, or authorized waste facility in accordance with statutory requirements. May be broadcast on farm as fertilizer using proper agriculture and soil management.

## Transport Information

### UN Number

None allocated

### UN Proper Shipping Name

None allocated

### Class & Subsidiary Risk

None allocated

### Packing Group

None allocated

### Hazchem Code

None allocated

## Regulatory Information

### Australian Regulatory Information

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).



## Other Information

### Key/Legend

NOHSC	National Occupational Health and Safety Commission
USEPA	United States Environmental Protection Authority
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
ACGIH	American Conference of Government Industrial Hygienists
OECD	Organisation for Economic Cooperation and Development
ES-TWA	Exposure Standard – Time weighted average
ES-STEL	Exposure Standard – Short term exposure level
ES-Peak	Exposure Standard – Peak level
LDLo	The lowest dose in an animal study in which lethality occurred.
LD50	Lethal dose 50. The single dose of a substance that causes death of 50% of an animal population from exposure other than inhalation
t/m <sup>3</sup>	Tonnes per cubic metre
mg/m <sup>3</sup>	Milligrams per cubic metre
mg/kg	Milligrams per kilogram
pH	Hydrogen ion concentration on a scale of 0-14

### Disclaimer

The information contained in this SDS is offered in good faith as accurate but does not purport to be all-inclusive. Health and safety precautions in this SDS may not be adequate for all individuals and/or situations. It is the user's responsibility to determine the suitability of any material for a specific purpose, adopt such precautions as may be necessary and comply with all applicable laws and regulations. Summit Fertilizers reserves the right to make changes to SDS data without notice.