



LIQUID AMMONIUM SULFATE HERBICIDE ADJUVANT

SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier	Wilchem Liquid Ammonium Sulfate Herbicide Adjuvant
Other means of identification	None assigned
Recommended use of the chemical	Herbicide adjuvant for use with liquid flowable herbicide formulations to minimise antagonism of glyphosate
Restrictions on Use	Use only for the intended application.
Details of Australian manufacturer or importer	Australian manufacturer / importer: Wilchem Pty Ltd ABN: 44 614 126 573 Address: 39 Jonal Drive, Cavan, SA 5094 AUSTRALIA Telephone: 08 8359 6855 Email: admin@wilchem.com.au Website: www.wilchem.com.au
Emergency phone number	Poisons Information Centre: 13 11 26 , (Australia, 24 hours)

2. HAZARDS IDENTIFICATION

Not classified as a hazardous chemical in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals, 7th Revised Edition (GHS 7), as adopted under Australian WHS legislation.

Signal word	Not required
Hazard pictograms	None required
Hazard statements	None assigned.
Other hazards which do not result in classification	Direct eye contact or inhalation of spray mist may cause mild transient irritation. These effects do not result in classification as a hazardous chemical.

DANGEROUS GOODS STATEMENT

Not classified as dangerous goods for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road & Rail, Edition 7.9 (ADG Code).

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Ammonium sulfate	7783-20-2	30 – 40% w/w
Water	7732-18-5	Balance

4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation	Remove to fresh air. Obtain medical advice if ill-effects occur or persist.
Skin contact	Remove contaminated clothing. Wash thoroughly with soap and water. Wash clothing before reuse.
Eye contact	Immediately rinse cautiously with clean water for at least 15 minutes, holding eyelids open. Remove contact lenses if easy to do.
Ingestion	Rinse mouth. Do not induce vomiting. Drink water if conscious. Get medical attention if unwell.

First aid facilities

Provide eyewash and access to running water.

Symptoms and effects caused by exposure, including acute and delayed effects

May cause mild, transient eye irritation. May cause nausea and vomiting if swallowed.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

Extinguishing media

Product is water-based and not combustible. Use media appropriate to surrounding fire.

Specific hazards arising from the chemical, including hazardous combustion products

Heating to dryness or strong heating may result in decomposition with release of ammonia, sulfur oxides, nitrogen oxides and other irritating or toxic gases.

Special protective equipment and precautions for fire fighters

Evacuate area and contact emergency services. Toxic gases may be present in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combatting fire. Use water fog or spray to cool intact containers and nearby storage areas. Prevent contaminated fire water entering drains and waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Isolate area. Avoid eye/skin contact and mist inhalation. Wear gloves, protective clothing and chemical splash goggles/face shield.

Environmental precautions

Prevent entry to drains, soil and waterways. Notify the appropriate authority if significant contamination occurs.

Methods and materials for containment and clean up

Small spills: Contain and absorb with sand, earth or other inert absorbent material. Recover where practicable and place residues in a suitable labelled container. Wash contaminated area with water.

Large spills: Stop leak if safe to do so. Bund with sand, earth or other inert absorbent material. Recover and recycle where practicable. Absorb residue and place in labelled containers for disposal. Do not wash concentrated product to drain. Wash contaminated area with water.

7. HANDLING AND STORAGE**Precautions for safe handling**

Before use, read all Safety Information, including Directions for Use on the label. Avoid contact and generation of aerosols. Do not eat, drink or smoke while handling. Wash thoroughly after use. Do not mix with other agricultural chemicals unless compatibility has been established.

Conditions for safe storage, including any incompatibilities

Store in the closed original container in a cool, dry area. Protect from excessive heat, freezing and direct sunlight. Segregate from strong alkalis and strong oxidising agents.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**Workplace exposure standards / limits**

No product-specific Australian workplace exposure standard / limit has been assigned to this product.

Biological monitoring

Not required.

Engineering controls

Use in well-ventilated areas.

Personal Protective Equipment (PPE)

Eye and face protection Wear safety glasses with side shields or splash-proof chemical goggles (AS 1336 / 1337).

Skin protection Recommended glove types include PVC, rubber or nitrile (AS 2161).

Body protection Clothing should include long sleeves, long trousers, safety boots and gloves.

Respiratory protection Not required under normal conditions of use. Where spray mist or aerosol may be generated and adequate ventilation cannot be maintained, wear a correctly fitted respirator incorporating a suitable particulate filter, for example P2, selected and used in accordance with AS/NZS 1715 and AS/NZS 1716.

P2 particulate filtration is intended for spray mist only. If ammonia gas is generated following accidental contact with alkaline materials, evacuate or ventilate the affected area and use respiratory protection specifically suitable for ammonia, selected in accordance with AS/NZS 1715 and AS/NZS 1716.

Thermal hazards None identified.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Colourless to pale yellow
Odour	None
Melting point / freezing point	-16°C
Boiling point	> 100°C
Flammability	Nonflammable aqueous mixture

pH (neat)	5 to 7
Solubility	Soluble in water
Density and /or relative density	Approx 1.2 g/mL @ 20°C

10. STABILITY AND REACTIVITY

Reactivity

Contact with strong alkaline materials may release ammonia gas.

Chemical stability

Stable under recommended conditions of storage and handling.

Possibility of hazardous reactions

Hazardous reactions are not expected under normal conditions of use. Contact with strong alkalis may result in release of ammonia gas.

Conditions to avoid

Keep away from heat (>40°C) and out of direct sunlight.

Incompatible materials

Incompatible with strong alkalis and strong oxidising agents.

Hazardous decomposition products

Ammonia, sulfur oxides, nitrogen oxides and other irritating or toxic gases may be produced if strongly heated or in a fire situation.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	Spray mist may cause upper respiratory tract irritation.
Skin contact:	Incidental skin contact is not likely to cause irritation.
Ingestion:	May cause nausea, vomiting and gastrointestinal irritation.
Eye contact:	May cause transient discomfort.
Chronic effects:	Prolonged or repeated skin contact may cause irritation.

Toxicological endpoint information

Acute toxicity	Not classified based on available information. Ingestion may cause nausea, vomiting and gastrointestinal discomfort. Ammonium sulfate: Oral LD50 (rat): approximately 4,250 mg/kg Dermal LD50 (rat): >2,000 mg/kg
Skin corrosion / irritation	Not classified. Repeated or prolonged contact may cause mild irritation.
Serious eye damage / irritation	Not classified. Direct contact may cause transient discomfort or mild irritation.
Respiratory sensitisation	Not classified based on available information.

Skin sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive toxicity	Not classified based on available information.
Specific Target Organ Toxicity (STOT)– single exposure	Not classified. Spray mist may cause temporary respiratory tract irritation.
Specific Target Organ Toxicity (STOT) – repeated exposure	Not classified based on available information.
Aspiration hazard	Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No ecotoxicity data available for the product. The product is not classified as hazardous to the aquatic environment based on available ingredient information. Concentrated or uncontrolled releases may adversely affect aquatic environments through nutrient enrichment.

Persistence and Degradability

Conventional biodegradability criteria are not applicable to this inorganic salt. In the environment, ammonium participates in natural microbial nitrogen-cycle processes including nitrification and denitrification.

Bioaccumulative Potential

Significant bioaccumulation is not expected based on available information for the ingredients.

Mobility in Soil

Ammonium sulfate is highly water soluble and dissociates into ammonium and sulfate ions. Mobility is dependent on soil properties. Ammonium may be retained by cation-exchange sites, while sulfate and transformed nitrogen species may migrate with soil water.

Other Adverse Effects

May cause short-term harm to aquatic systems due to nutrient enrichment. Avoid uncontrolled release.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Recover or recycle the product where practicable. Dispose of residues, contaminated absorbents and packaging through a licensed waste contractor in accordance with applicable Commonwealth, state, territory and local requirements. Where permitted, container rinsate may be added to application solution and used in accordance with the product directions.

Do not discharge concentrated product to stormwater, surface waters or soil. Empty containers should be triple rinsed before disposal or recycling. Do not reuse empty containers

14. TRANSPORT INFORMATION**ROAD AND RAIL TRANSPORT**

Not classified as dangerous goods for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road & Rail, Edition 7.9 (ADG Code).

UN number	Not applicable.
UN proper shipping name	Not applicable.
Transport hazard class	Not applicable.
Packing group	Not applicable.
Subsidiary risk(s)	Not applicable.
Environmental hazards for transport purposes	Not classified.
Special precautions for user	None identified.
Additional information	Not applicable.
Hazchem code	Not applicable.

15. REGULATORY INFORMATION**International conventions and agreements:**

No specific international convention applicable to the product has been identified.

Safety, health and environmental regulations

Poisons scheduling: Not scheduled under the current Australian Poisons Standard.

16. OTHER INFORMATION

This Safety Data Sheet is based on the Safe Work Australia Model Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals and the Globally Harmonized System of Classification and Labelling of Chemicals, Seventh Revised Edition (GHS 7), as adopted under Australian work health and safety legislation.

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Disclaimer

The information in this SDS is based on information reasonably available to the Australian manufacturer or importer at the date of preparation or review. It describes the product in relation to workplace health and safety requirements and is not a product specification or warranty of performance. The product should be used only for the applications identified in Section 1 and in accordance with the information in this SDS. Users remain responsible for assessing workplace risks arising from their particular use conditions and for complying with applicable legislation.

End of Report