



# AMMONIUM SULPHATE Spray Grade

## SAFETY DATA SHEET

Revised – June 2017

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### 1. IDENTIFICATION

Product Name: **Melpat Ammonium Sulphate Spray Grade**  
 Recommended Use: Fertiliser

Supplier: Melpat International Pty Ltd  
 Address: 4/22 Parry Avenue, Bateman, WA 6150

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### 2. HAZARD(S) IDENTIFICATION

Non Hazardous Product

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name : Ammonium Sulphate

Chemical Formula :  $(\text{NH}_4)_2\text{SO}_4$

Molecular Formula :  $\text{H}_8\text{N}_2\text{O}_4\text{S}$

Molecular Weight : 132.14g/mol

CAS No : 7783-20-2

EC Number : 231-094-1

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### 4. FIRST AID MEASURES

If accidental contact with product occurs, proceed as follows:

Ingestion : DO NOT give anything by mouth to an unconscious person. Promptly drink large quantities of water. DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Seek medical advice.

Skin Contact	: Remove contaminated clothes and shoes. Wash with lukewarm water and soap. Launder contaminated clothing before reuse.
Eye Contact	: Hold eyelids open and flush with lukewarm water for at least 20 minutes, until no evidence of the chemical remains. If wearing contact lenses, remove immediately. Seek medical advice.
Inhalation	: Remove victim to fresh air.

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## 5. FIRE FIGHTING MEASURES

Extinguishing media	: Use dry chemical powder, carbon dioxide, foam – use extinguishing media that is suitable to the environment. Avoid using water jets as this will cause product to run into drains and water ways.
Special hazards arising from the substance or mixture	: Not combustible. Ambient fire may liberate hazardous vapours. Fire may cause evolution of nitrogen oxides, sulphur oxides.
Personal protection equipment for fire fighting	: Use adequate protective clothes (including gloves) and self-contained, positive pressure breathing apparatus, approved specifically for confined areas. Avoid inhalation of dust.
Additional Information	: In case of fire, prevent by any means possible spillage from entering drains or water ways.

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## 6. MEASURES TO CONTROL SPILLS AND LEAKS

Methods and Materials for containment and cleaning up	: Spills on the Ground				
	<table> <tr> <td>Small Spills</td> <td> <ul style="list-style-type: none"> <li>- Isolate area and prevent people from entering.</li> <li>- Avoid making dust.</li> <li>- Sweep and wipe away.</li> <li>- Place material in a clean, dry container and seal for subsequent disposal.</li> <li>- Properly dispose of material according to local regulations.</li> </ul> </td> </tr> <tr> <td>Large Spills</td> <td> <ul style="list-style-type: none"> <li>- Isolate area and prevent people from entering.</li> </ul> </td> </tr> </table>	Small Spills	<ul style="list-style-type: none"> <li>- Isolate area and prevent people from entering.</li> <li>- Avoid making dust.</li> <li>- Sweep and wipe away.</li> <li>- Place material in a clean, dry container and seal for subsequent disposal.</li> <li>- Properly dispose of material according to local regulations.</li> </ul>	Large Spills	<ul style="list-style-type: none"> <li>- Isolate area and prevent people from entering.</li> </ul>
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- Avoid making dust.
  - Scoop up the material.
  - Place material in a clean, dry containers and seal for subsequent disposal.
  - Properly dispose of material according to local regulations.
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## 7. HANDLING & STORAGE

General Information	: Store above 0°C and below 30°C.
Conditions for safe storage	: Keep product sealed and dry. Do not store in an unlabeled container. Store in a cool, clean, dry and well ventilated area – out of direct sunlight. Protect from rain and excessive heat. Do not store near feed, food or within reach of children.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protective Equipment	: <u>Eye / Face Protection:</u> Wear splash-proof / dust resistant safety goggles. Use equipment for eye protection that is tested and approved under appropriate government standards.  <u>Skin Protection:</u> Wear impervious clothing to prevent repeated or prolonged skin contact with this product.  <u>Hand Protection:</u> Wear PVC gloves. Dispose of contaminated gloves after use. Avoid skin contact with this product. Wash and dry hands.  <u>Respiratory Protection:</u> Wear approved dust and mist respirator.  <u>Other Recommendations:</u> After handling this product, always wash hands before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storing and re-using.
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**9. PHYSICAL & CHEMICAL PROPERTIES**

Appearance and colour	: Crystal Form, colourless to white
Odour	: Odourless
pH (20°C)	: below 7 at 50g/L
Melting point	: (decomposition), not applicable
Boiling point / boiling range	: not applicable
Ignition temperature	: not applicable
Flammability	: no data available
Oxidizing properties	: no data available
Flash Point	: not applicable
Water solubility	: 754 g/L at 20°C
Solubility	: no data available
Insolubility:	: insoluble in organic solvents
Explosive properties	: not explosive
Density	: 1.77 g/cm <sup>3</sup> at 20°C
Bulk Density	: ca. 1000 kg/m <sup>3</sup>

**10. STABILITY & REACTIVITY**

Conditions to avoid	: Excessive heat, direct sunlight, high moisture / humid conditions, dust generation, incompatible materials / products.
Incompatible Materials	: Exothermic reaction with: <ul style="list-style-type: none"> <li>- Chlorates, with heat</li> <li>- Nitrates, with heat</li> </ul> <p>Generates dangerous gases or fumes if in contact with:</p> <ul style="list-style-type: none"> <li>- Alkalines (Ammonia)</li> </ul>
Hazardous Decomposition Products	: Decomposes, giving off highly toxic gases. Copper oxides. Hydrogen chloride gas.

Risks of Explosion with	: Chlorates (Acids) Nitrates (Potassium / Acids / Sodium Hypochlorite)
Thermal Decomposition	: >235°C

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## 11. TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS:

Acute Toxicity	: LD <sub>50</sub> oral (rats):	Dose 2.840 mg/kg
Skin irritation	: (Rabbits) no irritation	
Eye irritation	: (Rabbits) no irritation	
Genotoxicity in-vitro	: (Ames Test) Result = negative Method: OECD Test Guideline 471	
Mutagenicity (mammalian cell test)	: Chromosome aberration. Result: negative (IUCLID)	

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## 12. ECOLOGICAL INFORMATION

### TOXICITY:

Fish (Zebra Fish ( <i>Danio Rerio</i> ))	: LC50 (96h): 0.420 mg/L
Freshwater invertebrate (Daphnia magna)	: EC50 (48h): 0.129 mg/L
Additional ecological information	: Biological effects: fertilizing effects possible.
Further Information	: DO NOT allow to enter water ways or drains

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## 13. CONSIDERATIONS ON FINAL DISPOSAL

Product disposal	: Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements. Generation of waste should be avoided or minimised where possible.
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Avoid dispersal of spilled material.

Avoid contact with soil, waterways, drains and sewers.

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Disposal of copper waste into waterways is not allowed.

Avoid excessive heat and incompatible materials: strong oxidising agents, mercury containing compounds, thiram, DNOC, lime sulphur and dithiocarbamates.

Disposal of contaminated containers / packaging : DO NOT dispose of undiluted chemicals on site. Puncture or and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

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#### 14. TRANSPORT INFORMATION

Not classifies as dangerous under transport regulations

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#### 15. REGULATORY INFORMATION

APVMA Approval No. : 61740/25/1107

Marking on Label : READ SAFETY DIRECTIONS BEFORE OPENING OR USING THIS PRODUCT

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#### 16. OTHER INFORMATION

The information contained in this MSDS is provided in good faith and is believed to be correct at the date hereof. However, it is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Melpat International Pty Ltd makes no representation as to the accuracy or comprehensiveness of the information. To the full extent allowed by law, Melpat International Pty Ltd excludes all liability whatsoever - whether with respect to negligence or otherwise, for any loss or damage arising from or connection with the supply or use of the information in this MSDS.

**June 2017**