

# SAFETY DATA SHEET

**PRODUCT NAME:    SULPHATE OF AMMONIA PREMIUM**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Other Names:** Sulphate of Ammonia Granular; Ammonium Sulphate Granular; Ammonium Sulphate Premium; SOA MAXAM, SOA, S.O.A

**Recommended use:** Fertiliser

**Supplier:** Baileys Fertilisers

**Address:** 24 Beach St  
Kwinana Beach  
Western Australia 6167

**Telephone:** (08) 9439 1688 (Monday to Friday: 8.00am – 5.00pm)

**Emergency Contact:** Poisons Information Centre on 13 11 26

**Facsimile:** (08) 9439 1068

**Email:** baileys@baileysfertiliser.com.au

**Website:** baileysfertiliser.com.au

## 2. HAZARD IDENTIFICATION

**1. GHS Classification:** Not classified as hazardous according to Australian Criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

**2. Signal Word:** N/A

**3. Hazard Category(s):** N/A

**4. Hazard Symbol:** N/A

**5. Hazard Statement(s):** N/A

**6. Precautionary Statements:** N/A

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Contents % w/w
Ammonium Sulphate	7783-20-2	98 - 100

Note: Ammonium sulphate contains the following impurities at levels in the finished product at levels that **do not** cause the product to be classified as hazardous:

Chemical Name	CAS Number	Contents % w/w
Cobalt Sulphate	10124-43-3	< 0.02
Cobalt Sulphide	1317-42-6	< 0.02
Nickel Sulphate	7786-81-4	< 0.02
Nickel Sulphide	16812-54-7	< 0.01

## 4. FIRST AID MEASURES

**Eye Contact:** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes or as advised by the Poisons Information Centre (13 11 26). Get medical attention if irritation develops or persists.

**Skin Contact:** Remove contaminated clothing immediately and wash skin with plenty of soap and running water. Get medical attention if irritation develops and persists.

## **SAFETY DATA SHEET**

- Inhalation:** If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist. After inhalation of decomposition products, keep patient calm, remove to fresh air and seek medical attention.
- Ingestion:** For advice, contact a poison information centre or a doctor / physician. Do not induce vomiting.
- Symptoms Caused by Exposure:** Dermatitis. After inhalation of decomposition products: risk of pulmonary edema, symptoms can appear later.
- Medical Attention and Special Treatment:** Treat symptomatically. See section 11 for more detailed information.

### **5. FIRE FIGHTING MEASURES**

- Flammability:** Non-flammable.
- Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire. Do not use water jet as an extinguisher as this will spread the fire.
- Fire/Explosion Hazard:** May evolve toxic nitrogen / sulphur / nickel / cobalt oxides and ammonia when heated to decomposition. Thermal decomposition product at > 235°C: ammonia.
- General Instructions:** Use methods for the surrounding fire. Evacuate area. Stay upwind. Use water fog to cool intact containers and nearby storage areas.  
High concentrations of airborne dust may form an explosive mixture with air. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.
- Personal Protection:** Wear self-contained breathing apparatus (SCBA) and full protective clothing.
- Hazchem Code:** None allocated.

### **6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill / leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For person protection, see Section 8.
- Environmental precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel or all environmental releases.
- Methods of cleaning up:** Avoid generation and spreading of dust. Stop the flow of material, if this is without risk. Sweep up or vacuum up spillage and collect in suitable container for disposal. Containers must be labelled. Prevent runoff from entering drains, sewers or streams.
- Reference to other sections:** See Sections 8 and 13 for exposure controls and disposal.

### **7. HANDLING AND STORAGE**

- Precautions for safe handling:** Before use, carefully read the product label. Use of safe working practices are recommended to avoid eye or skin contact and inhalation. Observe good person hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.
- Conditions for safe storage, including any incompatibilities:** Store in original tightly closed container. Store away from incompatible materials. Segregate from alkalis and alkalinizing substances. Segregate from nitrites. Protect against moisture. The product may cake under the influence of moisture.
- Specific end use(s):** No information provided.

# SAFETY DATA SHEET

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure standards:** Dust TWA 3 mg/m<sup>3</sup> (respirable particles)  
10 mg/m<sup>3</sup> (inhalable particles)

**Biological limits:** No biological limit values have been entered for this product.

### Exposure controls

**Engineering controls:** Avoid inhalation. Use in well ventilated areas. Use appropriate safe working procedures to reduce the potential for an inhalation hazard.

**PPE:**

<b>Eye / Face</b>	Not required under normal conditions of use.
<b>Hands</b>	With prolonged use, wear PVC or rubber gloves.
<b>Body</b>	Not required under normal conditions of use.
<b>Respiratory</b>	Where an inhalation risk exists, wear a respirator of type P1 (Particulate).



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White to pale pink granules.
<b>Odour</b>	Odourless
<b>Flammability</b>	Non flammable
<b>Flash Point</b>	Not relevant
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	350°C
<b>Evaporation Rate</b>	Not available
<b>pH</b>	Not available
<b>Vapour density</b>	Not available
<b>Density</b>	Not available
<b>Solubility (water)</b>	Soluble in water
<b>Vapour pressure</b>	Not available
<b>Upper explosion limit</b>	Not relevant
<b>Lower explosion limit</b>	Not relevant
<b>Partition coefficient</b>	Not available
<b>Autoignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Explosive properties</b>	Not explosive
<b>Oxidising properties</b>	Not oxidising
<b>Odour threshold</b>	Not available

## 10. STABILITY AND REACTIVITY

**Reactivity:** The product is stable and non-reactive under normal conditions or use, storage and transport.

# SAFETY DATA SHEET

- Chemical stability:** Stable under recommended conditions of storage.
- Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.
- Conditions to avoid:** Contact with incompatible materials. Avoid heat, sparks, open flames and other ignition sources. Dust generation.
- Incompatible materials:** Strong oxidising agents (e.g. hypochlorites). Alkalis and alkalisng substances. Nitrates.
- Hazardous decomposition products:** May evolve nitrogen / sulphur / nickel / cobalt oxides and ammonia when heated to decomposition. Decomposition may yield nickel carbonyl. Under special conditions nickel can react with carbon monoxide in reducing atmospheres to form nickel carbonyl, a toxic gas.

## 11. TOXICOLOGICAL INFORMATION

Low toxicity. Use safe work practices to avoid eye or skin contact and inhalation. Chronic effects are not anticipated for this product.

- Ingestion:** Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.
- Skin:** Non – low irritant. Prolonged or repeated contact may result in mild irritation. Some individuals may experience allergic reaction.
- Eye:** Low to moderate irritant. Contact may result in mild irritation, lacrimation and redness.
- Inhalation:** Low irritant. Over exposure may result in irritation of the nose and throat, with coughing.
- Carcinogenicity:** Not classified as a carcinogen. Contains impurities that are carcinogens but at insufficient concentrations for classification.
- |                                  |   |
|----------------------------------|---|
| Cobalt sulphate (CAS 10026-24-1) | IARC: 2B Possibly carcinogenic to humans. |
| Cobalt sulphide (CAS 1317-42-6)  | IARC: 2B Possibly carcinogenic to humans. |
| Nickel sulphate (CAS 7786-81-4)  | IARC: 1 Carcinogenic to humans.           |
| Nickel sulphide (CAS 16812-54-7) | IARC: 1 Carcinogenic to humans.           |

Toxicological Data:	Impurities	Species	Test Results
	<u>Nickel sulphide (CAS 16812-54-7)</u>		
	Acute – Inhalation LC50	Rat	1.1379 mg/l (4 hrs)
	Acute – Oral LD50	Rat	> 5000 mg/kg
	<u>Nickel sulphate (CAS 7786-81-4)</u>		
	Acute – Inhalation LC50	Rat	2.48 mg/l (4 hrs)
	Acute – Oral LD50	Rat	300 mg/kg
	<u>Cobalt sulphate (CAS 10026-24-1)</u>		
	Acute – Oral LD50	Rat	768 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Low toxicity to aquatic organisms. Contains impurities that are ecotoxic but at insufficient concentrations for classification.

Impurities	Species	Test Results
<u>Nickel sulphide (CAS 16812-54-7)</u>		
<b>Aquatic - Acute</b>		
Algae EC50	Pseudokirchnerella subcapitata	> 0.0815 mg/l, 72 hours

## **SAFETY DATA SHEET**

Crustacea LC50	Ceriodaphnia dubia	0.122 mg/l, 48 hours
Fish LC50	Oncorhynchus mykiss	15.3 mg/l, 96 hours
<u><i>Cobalt sulphide (CAS 1317-42-6)</i></u>		
<b>Aquatic - Acute</b>		
Fish LC50	Oncorhynchus mykiss	1406 µg/l, 96 Hours
<b>Aquatic - Chronic</b>		
Fish NOEC	Danio rerio	340 µg/l, 16 days
<u><i>Nickel sulphate (CAS 7786-81-4)</i></u>		
<b>Aquatic - Acute</b>		
Crustacea LC50	Water flea (Daphnia magna)	0.18 mg/l, 48 hours
Fish LC50	Carp (Cyprinus carpio)	47.58 mg/l, 96 hours

**Persistence and degradability:** Not relevant.

**Bioaccumulative potential:** This product does not bioaccumulate.

**Mobility in soil:** This product is water soluble and may disperse in soil.

**Other adverse effects:** No information available.

### **13. DISPOSAL CONSIDERATIONS**

**Disposal:** Collect without generating dust. Dispose of in accordance with local regulations, to an approved landfill site. Do not incinerate. Do not contaminate ponds, waterways or ditches with chemical or used container. Since emptied containers may retain product residues, follow label warning even after container is emptied.

### **14. TRANSPORT INFORMATION**

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG or IATA**

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG)	AIR TRANSPORT (IATA / ICAO)
<b>UN Number</b>	None allocated.	None allocated.	None allocated.
<b>Proper Shipping Name</b>	None allocated.	None allocated.	None allocated.
<b>Transport Hazard Class</b>	None allocated.	None allocated.	None allocated.
<b>Packing Group</b>	None allocated.	None allocated.	None allocated.
<b>Hazchem Code</b>	None allocated.	None allocated.	None allocated.

### **15. REGULATORY INFORMATION**

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

**Classifications** Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substance [NOHSC: 1008(2004)].

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

# **SAFETY DATA SHEET**

## **16. OTHER INFORMATION**

**Disclaimer**

This document has been prepared by Baileys Fertilisers and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

While Baileys Fertilisers has taken all due care to include accurate and up to date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Baileys Fertilisers accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

As the use of the products described in this document is outside the control of Baileys Fertilisers, we make no representation or warranty concerning the suitability or fitness of this product for any purpose. It is your sole responsibility to ensure that the product will have the qualities and attributes that will make them fit for any ordinary or special purpose required of them, even if that purpose is made known to us at any time. This includes responsibility on your part to conduct in a timely manner all appropriate tests and quality checks on the product and any goods made from them. We disclaim any liability if any products are not suitable or fit for any such purpose.

**Revision**

1

**Date**

04/06/2019

**End of SDS**