



2890

Material Safety Data Sheet

Product Name: **AMMONIUM SULPHATE**

Approval Number: **2890**

MSDS Issue Date: **6/3/2007**

Expiry Date: **6/03/2012**

NOHSC Classification: **Non Hazardous**

Restricted: **No**

Manufacturer or Supplier:

BLUESCOPE STEEL LIMITED - PORT KEMBLA
PO BOX 1854
WOLLONGONG NSW, 2500
Phone: 02 4275 7522
Fax: 02 4275 7159

This Material Safety Data Sheet has been approved by Port Kembla Steelworks Safety Health & Risk Department.

For Further information ring or email:

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Safety Health & Risk Dept, 10

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Product Name : AMMONIUM SULPHATE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Chemical Product and Company Identification Approval number: 2890

Product Name AMMONIUM SULPHATE

Company Name BlueScope Steel Limited (ABN 19 000 019 625)

Address Port Kembla Steelworks, PO BOX 1854 WOLLONGONG
NSW 2500 Australia

Emergency Tel. 131126 Poison Info

Telephone/Fax Number Tel: 02 4275 7522
Fax: 02 4275 7159

Recommended Use Fertiliser.

Other Names Name

Product Code

SULPHATE OF AMMONIA

Additional Information Ammonium sulphate is a byproduct produced when ammonia is removed from the COG by scrubbing the COG with a sulphuric acid solution to form ammonium sulphate solution. The ammonium sulphate is then crystallised from the sulphate solution at the sulphate plant.

2. HAZARDS IDENTIFICATION

Hazard Classification NON-HAZARDOUS SUBSTANCE.

NON-DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods Code.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Ammonium sulphate	7783-20-2	99-100 %
	Sulphuric acid	7664-93-9	0-0.5 %
	Water	7732-18-5	0-0.5 %

Other Information Contains trace amounts of iron and cyanides (inorganic).

4. FIRST AID MEASURES

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.

Ingestion DO NOT induce vomiting. Wash out mouth with water. Seek medical attention.

Skin Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.

First Aid Facilities Normal washroom facilities.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Products Not combustible. However decomposition can occur and may emit toxic and/or irritating fumes including oxides of sulphur and ammonia.

Special Protective Equipment for fire fighters Fire fighters should wear full protective clothing and self-contained breathing apparatus.

Decomposition Temp. > 280°C

6. ACCIDENTAL RELEASE MEASURES

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Emergency Procedures Remove all sources of heat. Increase ventilation. Evacuate all unnecessary personnel. Wear sufficient respiratory protection and full protective clothing to minimise inhalation, skin and eye exposure. Sweep/vacuum up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, and then transfer material to a suitable container. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well, with soap and water. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. This material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Avoid generating dust. Use in a well ventilated area. Exposure without protection should be prevented in order to lessen the possibility of disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture and away from strong oxidising agents. Store in labelled, corrosion-resistant containers. Keep containers tightly closed. Have appropriate fire extinguishers available in and near the storage area.

Other Information This product is contained inside pipework, pumps and the centrate tank.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material, however, the TWA National Occupational Health And Safety Commission (NOHSC) exposure standards for dust not otherwise specified is 10 mg/m³.

As published by the National Occupational Health and Safety Commission (NOHSC):

TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Biological Limit Values No biological limit allocated.

Other Exposure Information No exposure limits have been established for this material by the National Occupational Health And Safety Commission (NOHSC).

TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Engineering Controls Use with good general ventilation. If dusts are produced local exhaust ventilation should be used.

Respiratory Protection Where sufficient ventilation is not available, avoid breathing dust by wearing an AS 1716 approved P1 particulate filter respirator. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

Eye Protection Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection Wear gloves of impervious material such as nitrile, neoprene or PVC gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Off white crystals.
Odour Not available.
Decomposition Temperature > 280°C
Melting Point > 280°C
Boiling Point Not applicable.
Solubility in Water Soluble.
Solubility in Organic Solvents Insoluble.
Specific Gravity 1.77 (water = 1)
pH Value 5.5 (1% solution)
Vapour Pressure Not applicable.
Vapour Density (Air=1) Not applicable.
Flash Point Not applicable.
Flammable Limits - Lower Not applicable.
Flammable Limits - Upper Not applicable.

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.
Conditions to Avoid Dusty conditions and extremes of temperature.
Incompatible Materials Strong oxidising agents.
Hazardous Decomposition Products Sulphur and ammonia.
Hazardous Reactions Reacts vigorously when accidentally mixed with oxidising agents such as chlorates, hypochlorites and nitrites.
Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information Acute toxicity:
LD50 ORAL (rat): 2840 mg/kg
Inhalation Inhalation of product dusts may cause irritation of the nose, throat and respiratory system.
Ingestion Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Skin May cause redness, itching and irritation.
Eye May cause eye irritation, tearing, stinging, blurred vision, and redness.
Chronic Effects Repeated or prolonged exposure to this material may result in skin irritation and aggravate existing respiratory disorders.

12. ECOLOGICAL INFORMATION

Ecotoxicity No ecological data available for this product.
Persistence / Degradability Not available.
Mobility Not available.
Environ. Protection Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS
