

# Safety data sheet

Ammonium Sulphate (Sulphate of Ammonia)

**Morton Smith-Dawe**  
LIMITED



UPDATED: 9 April 2015

## Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	Ammonium Sulphate (Sulphate of Ammonia)
<b>Other Names:</b>	GAS, SAS, Ammonium sulphate 21-0-0, Ammonium sulfate, Sulphuric acid diammonium salt, Sulphate of ammonia
<b>Chemical Formula:</b>	$(\text{NH}_4)_2\text{SO}_4$
<b>Recommended Use:</b>	Fertiliser
<b>Company Identification:</b>	Morton Smith-Dawe Ltd
<b>Address:</b>	396 Wigram Road, Halswell, Christchurch PO Box 37-139, Halswell, Christchurch
<b>Telephone Number:</b>	03 3228117
<b>National Poisons Information Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Phone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency Phone Number:</b>	111 - tell operator what service is needed: Fire, Ambulance or Police

## Section 2: HAZARD IDENTIFICATION

<b>Hazard Classifications:</b>	6.1D, 9.1D, 9.3C	A red rectangular label with a white exclamation mark icon and the word "DANGER" in white capital letters.
<b>Priority Identifiers:</b>	DANGER KEEP OUT OF REACH OF CHILDREN	
<b>Secondary Identifiers:</b>	6.1D = May be harmful if swallowed, inhaled or absorbed through the skin	
	9.1D = Slightly harmful to aquatic life	
	9.3C = Harmful to terrestrial vertebrates	



DANGER

## Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Ammonium Sulphate	7783-20-2	100%

#### Section 4: FIRST AID MEASURES

<b>First Aid Measures:</b>	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
<b>Inhalation:</b>	Remove patient to fresh air. Seek medical assistance if effects persist
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. If swallowed rinse mouth seek medical advice
<b>Skin:</b>	Wash affected area thoroughly with soap and water
<b>Eye:</b>	Flush with plenty of water for several minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do. Seek medical advice.
<b>Advice to Doctor:</b>	Treat symptomatically.

#### Section 5: FIRE FIGHTING MEASURES

<b>Flash Point:</b>	N/A (Non-flammable)
<b>Combustion Products:</b>	Non-combustible. Decomposes on heating to form ammonia, nitrogen oxides and sulphur oxides
<b>Extinguishing Media:</b>	Based on surrounding materials
<b>Protective Equipment:</b>	Breathing apparatus goggles and protective gloves
<b>HAZCHEM Code:</b>	None allocated.

#### Section 6: ACCIDENTAL RELEASE MEASURES

<b>Spills and Disposal:</b>	Wear appropriate protective clothing. Contain spill and sweep up. Collect and place in sealable containers. Avoid generating dust. Reuse or recycle where possible.
<b>Protective Clothing:</b>	For appropriate personal protective equipment see section 8.
<b>Environmental</b>	Avoid unintended release of excessive amounts into waterways or sewers.

#### Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Avoid generating dusts, do not breathe dusts. <b>Approved Handler:</b> Not required <b>Tracking:</b> Not required <b>Record Keeping:</b> Not required
<b>Storage:</b>	Store in a cool, dry area
<b>Other Information:</b>	Avoid unintended release into the environment.

#### Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Exposure Limits:</b>	<b>Workplace Exposure Standards (WES):</b> Particulates not otherwise classified: Inspirable dust 10mg.m <sup>-3</sup> Respirable dust 3mg.m <sup>-3</sup>
<b>Protective Equipment:</b>	Overalls, safety glasses and gloves. If dust is present wear dust mask and goggles. Eye wash facilities should be available.
<b>Engineering Controls:</b>	Handle in well ventilated area. If dust generated use local extraction to control. Avoid inhalation of dust.
<b>Hygiene Precautions:</b>	Remove protective clothing and wash hands and face before meals and after work.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White to grey/brown
<b>Format:</b>	Granules
<b>Odour:</b>	Odourless

<b>Specific Gravity:</b>	1.77 g/cm <sup>3</sup>
<b>Bulk Density:</b>	1050 kg/m <sup>3</sup>
<b>pH:</b>	5 – 6 (50g/l in water at 20 °C)
<b>Solubility in Water:</b>	744 g/l at 20 °C
<b>Flash Point:</b>	N/A
<b>Melting Point</b>	230 – 280 °C (decomposes)
<b>Other Information:</b>	None

## Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions.
<b>Hazardous Polymerisation:</b>	Will not occur.
<b>Hazardous Decomposition</b>	Decomposes on heating to form ammonia, nitrogen oxides and sulphur oxides.
<b>Products:</b>	
<b>Conditions to Avoid:</b>	Strong heat, moisture.
<b>Materials to Avoid:</b>	Oxidisers

## Section 11: TOXICOLOGICAL INFORMATION

<b>HAZARD Classifications:</b>	6.1D
<b>Ingestion:</b>	Ingestion of large quantities. May lead to nausea, vomiting, diarrhea, thirst.
<b>Inhalation:</b>	Slight irritant. Over exposure may cause mucous membrane irritation and coughing.
<b>Skin:</b>	Slight irritant. Prolonged and repeated skin exposure may result in irritation, skin rash
<b>Eye:</b>	Slight irritant. Direct contact may result in lachrymation (tears), pain, redness and conjunctivitis.
<b>Chronic Effects:</b>	Not anticipated.
<b>Other Information:</b>	Low toxicity, no adverse health effects expected under normal conditions.
<b>Toxicity Data:</b>	LD <sub>50</sub> (oral, rat) 2840 mg/kg

## Section 12: ECOLOGICAL INFORMATION

<b>HAZARD Classifications:</b>	9.1D, 9.3C
<b>Ecotoxicity:</b>	Avoid unintended release into streams and waterways.

## Section 13: DISPOSAL INFORMATION

<b>Product Disposal:</b>	Reuse or recycle where possible. If practicable apply excess fertiliser at recommended rates to appropriate land. Observe any local authority restrictions that may apply.
<b>Container Disposal:</b>	Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.

## Section 14: TRANSPORT INFORMATION

<b>UN Number:</b>	None Allocated.
<b>Proper Shipping Name:</b>	None Allocated.
<b>DG Class:</b>	None Allocated.
<b>Other Information:</b>	Not regulated for transport purposes.

## Section 15: REGULATORY INFORMATION

<b>EPA:</b>	Approved pursuant to the HSNO Act 1996, Approval numbers HSR002770, HSR002571
See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.	

## **Section 16: OTHER INFORMATION**

This Safety Data Sheet was updated on the date shown and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.