



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product	Sulphate of Ammonia
Usage	Fertiliser/ Plant nutrient
Supplier	Westland Horticulture Ltd 14 Granville Industrial Estate Granville Road Dungannon County Tyrone BT70 1NJ
Email	www.gardenhealth.com
Emergency Tel	08700 663566 (UK)

2. HAZARDS IDENTIFICATION

No ingredients present at levels leading to a classification of hazardous under the Regulation (EC) No 1272/2008

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Ammonium Sulphate

Hazardous Ingredients

This product does not contain any hazardous ingredients in accordance to Regulation (EC) No 1272/2008



4. FIRST AID MEASURES

- General Advice:** Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
- Inhalation:** Move person to fresh air.
Keep patient warm and at rest.
- Skin Contact:** Wash off with soap and plenty of water.
Get medical attention if skin irritation or rash occurs
- Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses and continue flushing.
Get medical attention if irritation persists
- Ingestion:** Do not induce vomiting
Wash out mouth with water
Get medical attention if ill effects occur.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Suitable extinguishing media for the surrounding fire should be used

Extinguishing Media Which Must Not Be Used For Safety Reasons:

Do not use a solid water jet as it may scatter and spread fire.

Specific Hazards Arising From the Substance or Mixture:

The product is non combustible

As the product contains organic components, fire will produce toxic and corrosive products of combustion at temperatures above 235°C

Exposure to decomposition products may be a hazard to health

Special Protective Equipment for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Further Information:

Do not allow run-off from fire fighting to enter drains or water courses.

If fire run-off water enters drains or water course, inform the appropriate water authorities immediately



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Refer to protective measures listed in section 8.
Avoid breathing dust

Environmental Precautions:

Do not discharge into surface water or sanitary sewer system.

Methods and Materials for Containment and Cleaning Up:

Sweep up and shovel into suitable containers for disposal according to local / national regulations
Wash contaminated area with large quantities of water

Additional Advice: If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

Handling:

- Avoid dust formation and inhalation
- Avoid contact with skin and eyes
- When using do not eat, drink or smoke
- Wash hands and observe good hygiene practice after handling this product

Storage:

- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep away from strong oxidizing agents, alkalis, chlorates, nitrates and nitrites
- Protect against fire and explosion
- Keep away from food and feedstuffs

Specific End Uses:

Use as fertiliser according to the instruction on the label



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values

Component(s)	Exposure Limit(s)	Type of exposure limit
Nuisance dust	10mg/m ³	8 h TWA , Inhalable
Nuisance dust	4mg/m ³	8 h TWA , Respirable

Exposure Controls

Engineering Measures: Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded
Consideration should be given to the work procedures involved and the potential extent of exposure as may determine whether a higher level of protection is required

Protective Measures: The use of technical measures should always have priority over the use of personal protective equipment
When selecting personal protective equipment, seek appropriate professional advice
Personal protective equipment should be certified to appropriate standards

Respiratory Protection: Use suitable dust mask or dust respirator with filter type P if dust concentration is high

Hand Protection: Wear suitable gloves when handling the product over long periods. PVC recommended

Eye Protection: Wear eye/face protection. Safety spectacles/goggles/full face shield

Skin and Body Protection: No special protective equipment required
Select skin and body protection based on the physical job requirements

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline solid

Odour: Odourless

Other Properties:

	Value	Temperature	Method
pH (100g/l)	5.0		
Bulk density	1000-1200 kg/m ³		
Melting Point	350 °C		
Decomposition Temperature	>235 °C		
Water solubility	754 g/l	20 °C	



10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable under normal conditions of storage, handling and use
- Hazardous Reactions:** Reacts with alkalis to liberate ammonia
Can produce thermally sensitive mixtures with potassium chlorate and potassium nitrate and can enhance the explosive properties of ammonium nitrate
Dangerous reactions with nitrates
- Hazardous Decomposition:** Heating or fire can release toxic or irritant vapours such as ammonia and sulphur oxides
- Conditions To Avoid:** High temperature
Strong oxidising agents, alkalis, chlorates, nitrates and nitrites

11. TOXICOLOGICAL INFORMATION

This product is expected to be of a low toxicity but prolonged skin or eye contact may cause some irritation

- Acute Oral Toxicity:** Ingestion may cause irritation of the gastrointestinal tract
- Acute Inhalation Toxicity:** High concentration of dust may cause irritation to the respiratory tract
- Acute Dermal Toxicity:** Repeated or prolonged skin contact may cause mild irritation
- Eye Irritation:** Dust may cause irritation. Permanent damage is unlikely
- Long Term Toxicity:** None reported



12. ECOLOGICAL INFORMATION

Ecotoxicity: No harmful to aquatic life

Mobility in soil: Mobility in soil may be reduced through ion-ion interactions

Persistence and Degradability: Water is expected to be the main target compartment based on the physico-chemical properties of the product.
Particulate ammonium sulphate is removed from air by wet and dry deposition
Ammonium sulphate is mineralized fairly rapidly and subsequently nitrified in unsterilized soil
Nitrification and denitrification processes also occur naturally in streams and rivers, as well as in many secondary sewage treatment processes

Bioaccumulation: Based on the high water solubility and the ionic nature, this product is not expected to adsorb or bioaccumulate to a significant extent

Other Data: Inorganic product which cannot be eliminated from water by biological purification processes.
Ammonium salt NH_4^+ can oxidize to nitrate or be reduced to nitrogen by microorganisms. Inhibition of degradation activity in activated sludge is not anticipated during correct introduction of low concentrations
Keep away from water courses, report any accidental contamination of water courses to the authorities

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with product or used container. Check if agriculture use is possible. Dispose of by use on farm as a fertiliser, by spreading thinly on open ground
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.
Non hazardous waste

Contaminated Packaging: Empty remaining contents.
Completely empty containers can be put in the bin for recycling, incineration, land filling or disposed of in compliance with applicable local regulations



14. TRANSPORT INFORMATION

Land Transport (ADR /RID) Not dangerous goods

Sea Transport (IMDG) Not dangerous goods

Air Transport (IATA-DGR) Not dangerous goods

15. REGULATORY INFORMATION

This product is not subject to specific regulatory provisions in relation to protection of human health or the environment.

16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

Abbreviations and Acronyms

Regulation (EC) No 1272/2008	Classification, Labelling and packaging
IMDG Code	International Maritime Dangerous Goods Code
ADR	International Carriage of Dangerous Goods by Road
RID	International Carriage of Dangerous Goods by Rail
IATA	International Air Transport Association

Further information

Before using this product, ensure that you read and understand its label

The information in this Safety Data Sheet has been prepared in accordance with the applicable European Directives. The information is believed to be correct at the time of going to press. Always read the label and product information before use. For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.