



# Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Sulphate of ammonia

Version:1.0

Revision date: 19.09.2018

Print date: 19.09.2018

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

**1.1 Product identifier** Sulphate of Ammonia

**1.2 Relevant identified use** Fertiliser/ Plant nutrient

**1.3 Details of the supplier of the safety data sheet:**

Westland Horticulture Ltd  
14 Granville Industrial Estate  
Granville Road  
Dungannon  
County Tyrone  
BT70 1NJ

**Email** [customerservice@WestlandHorticulture.com](mailto:customerservice@WestlandHorticulture.com)

**1.4 Emergency telephone number:** 01480 443789 (UK)

## 2. HAZARDS IDENTIFICATION

**2.1 Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:**

Not classified

**2.2 Label Elements According to Regulation (EC) No 1272/2008:**

Hazard Pictograms	None
Signal Word	None
Hazard Statements	Not applicable
Precautionary Statements	Not applicable
Other hazards	Not applicable



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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: N/A

3.2 Description: Sulphate of Ammonia

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Ammonium Sulphate (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	EC: 231-984-1 CAS : 7783-20-2	12% (Ammoniacal Nitrogen)	N/A	Not classified

**Additional information:** See Section 16 for the full text of the H statements declared above

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General information:** 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 advice if irritation or rash occurs

**Eye Contact:** Rinse cautiously with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses and continue flushing.

**Ingestion:** Rinse out mouth with water  
Do Not induce vomiting  
Get medical attention if symptoms occur

**4.2 Most important symptoms and effects, both acute and delayed**  
Not applicable

**4.3 Indication of any immediate medical attention and special treatment needed**  
Not applicable



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## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing Media:

Suitable extinguishing media for the surrounding fire should be used

### 5.2 Specific Hazards Arising From the Substance or Mixture:

Fire will produce toxic and corrosive products of combustion such as Sulphur Dioxide (SO<sub>2</sub>)  
Exposure to decomposition products may be a hazard to health

### 5.3 Advice for Fire Fighters:

Wear full protective clothing and self-contained respiratory apparatus.

**Additional Information:** None

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid formation / breathing of dust  
Ensure suitable personal protection (including respiratory protection) during removal of spillages

### 6.2 Environmental Precautions:

Avoid release to the environment  
Do not allow to enter surface or ground water or sanitary sewer system.

### 6.3 Methods and Materials for Containment and Cleaning Up:

Sweep up and shovel into suitable containers (waste drums or plastic bags) for disposal according to local / national regulations  
Dispose contaminated material as waste according to Section 13  
Wash the spillage area with water

**Additional information:** If large quantities of the product contaminates water courses or drains (including via contaminated soil & vegetation), inform respective authorities.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Handling:

- Prevent dust formation and inhalation
- Avoid contact with eyes and skin



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- Do not eat, drink or smoke when using this product
- Wash hands and observe good hygiene practice after handling this product

## 7.2 Conditions for safe storage, including any incompatibilities:

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

## 7.3 Specific End Uses:

Use as fertiliser according to the instruction on the label

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

No ingredients with limit values that require monitoring at the workplace

Ingredient	Work Exposure Limit (WEL)	
	Long-term Exposure Limit (8-hr TWA reference period) Total Inhalable	Long-term Exposure Limit (8-hr TWA reference period) Respirable
Dust	10 mg/m <sup>3</sup>	4 mg/m <sup>3</sup>

### 8.2 Exposure Controls

**8.2.1 Appropriate engineering controls:** Avoid high dust concentration and provide ventilation where necessary to ensure that the occupational exposure limit is not exceeded

**8.2.2 Personal protective equipment:** 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 with filter type P1 if dust concentration is high

**Hand Protection:** Wear good resistance protective gloves. Material of gloves: PVC



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**Eye Protection:** Wear safety glasses. Wear protective goggles if dust concentration is high

**Skin and Body Protection:** Protective work clothing

**8.2.3 Environmental exposure controls:** N/A

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance:** white crystalline solid

**Physical state:** solid

**Colour:** white

**Odour:** odourless

**Odour threshold:** none known

### 9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	5.0	-	-	21 °C	-	-
Melting point/freezing point	-	-	-	-	-	-
Initial boiling point/boiling range	-	-	-	-	-	-
Flash point	-	-	-	-	-	-
Evaporation rate	-	-	-	-	-	-
Flammability (solid, gas)	-	-	-	-	-	-
Upper/lower flammability or explosive limits	-	-	-	-	-	-
Upper explosive limits	-	-	-	-	-	-
Lower explosive limits	-	-	-	-	-	-
Vapour pressure	-	-	-	-	-	-
Vapour density	-	-	-	-	-	-
Relative density	1.0-1.12g/ml	-	-	-	-	-
Solubility(ies)	754g/l	-	-	20 °C	-	-
Partition coefficient: n-octanol/water	-	-	-	-	-	-
Auto-ignition temperature	-	-	-	-	-	-
Decomposition temperature	>235 °C	-	-	-	-	-
Viscosity	-	-	-	-	-	-



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Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	-	-	-	-	-	-
Oxidising properties	-	-	-	-	-	-

**Physical hazards:** none known

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** Stable under normal conditions of storage, handling and use

**10.2 Chemical Stability:** Stable under normal conditions of storage, handling and use

**10.3 Possible hazardous reactions:** Reacts with alkalis to liberate ammonia  
Can produce thermally sensitive mixtures with potassium chlorate and potassium nitrate and can enhance explosive properties of ammonium nitrate  
Dangerous reactions with nitrates

**10.4 Conditions to Avoid:** Keep away from naked flames/heat

**10.5 Incompatible Materials:** Strong oxidising agents, alkalis, chlorates, nitrates and nitrites

**10.6 Hazardous decomposition products:** Heating or fire can release toxic or irritant vapours and fumes (Sulphur oxides and ammonia)

## 11. TOXICOLOGICAL INFORMATION

**Toxicokinetics, metabolism and distribution**

### 11.1 Information on toxicological effects

**Acute Toxicity:** No test data available. Not classified for acute toxicity as per ingredients below

**Skin corrosion/Irritation:** Repeated or prolonged skin contact may result in mild irritation



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**Eye damage/Irritation:** Dust may cause irritation. Permanent damage is unlikely

**Respiratory or Skin Sensitization:** High concentration of dust may be irritant to the respiratory tract

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

The mixture is not classified as mutagenic, carcinogen, reproductive toxic or aspiration hazard based on formulation components

**Other information:** None known

## 12. ECOLOGICAL INFORMATION

**12.1 Ecotoxicity:** Not harmful to aquatic organisms

**12.2 Persistence and Degradability:** Ammonium sulphate is mineralised fairly rapidly in unsterilized soil and subsequently nitrified. Nitrification and de-nitrification processes also occur naturally in streams, rivers and sewage treatment plants

**12.3 Bioaccumulative Potential:** Not expected to adsorb or bioaccumulate based on high water solubility and ionic nature of the substance

**12.4 Mobility in Soil:** May be reduced through ion-ion interactions

**12.5 PBT and vPvB assessment:** Not classified as PBT or vPvB

**12.6 Other adverse effects:** Inorganic product which cannot be eliminated from water by biological purification processes. Ammonium ion  $\text{NH}_4^+$  can oxidise to nitrate or be reduced to nitrogen by microorganisms.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**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.

**Contaminated Packaging:** Empty remaining contents.  
Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations



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## 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.2 UN Proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3 Transport hazard class(es)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
Hazard label(s)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.4 Packing group	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.5 Environmental hazards	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods

14.6 Special precautions for user: None known

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information: None known

## 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance of mixture:

This mixture is classified in accordance with Regulation 1272/2008.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out

## 16. OTHER INFORMATION

16.1 Indication of changes: N/A





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## 16.2 Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
Directive 67/548/EEC	Dangerous Substances Directive (DSD)
EC No	European Community Number for chemicals within EU regulations
IATA-DGR	Dangerous Goods Regulations by the International Air Transport Association
IMDG Code	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic Properties
Regulation (EC) No 1272/2008	Classification, Labelling and Packaging (CLP)
RID	International Transport of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative Properties

**16.3 Key literature references and sources for data:** Westland Horticulture Ltd

**16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:** See SECTION 2.1 (classification).

**16.5 Relevant H- and EUH-phrases (number and full text):**N/A

**16.6 Training advice:** Follow the instructions

## 16.7 Further information

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

### MSDS information:

This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, 1272/2008 and Annex I of the REACH regulation 453/2010.

This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Westland Horticulture Limited does not accept responsibility for damage caused by incorrect use of this information.

### Training and related advice:

This document contains important information to ensure the safe storage, handling and use of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to the end user and that all necessary training to enable the product to be used correctly has been given.

For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.