

# Material Safety Data Sheet

## Amvista Squirm

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### **SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**

#### **1.1 Product Identifier**

Product Name	Amvista Squirm
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#### **1.2 Relevant identified uses of the Substance or Mixture and uses advised against**

Identified Uses	Fertiliser
Uses identified against	None identified

#### **1.3 Details of the Supplier of the Safety Data Sheet**

Supplier	Angus Horticulture Limited Polmood Guthrie FORFAR DD8 2TW +44 (0) 1241 829049 +44 (0) 1241 829043
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<b><u>1.4 Emergency Contact Number</u></b>	+44 (0) 1674 674253/674352
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### **SECTION 2 Hazards Identification**

#### **2.1 Classification of the substance or mixture**

Physical Hazard(s)	Not classified
Health Hazard(s)	Not classified
Environmental Hazard(s)	Not classified

#### **2.2 Label Elements**

Hazard Pictogram(s)	Not relevant
Signal Word(s)	Not relevant
Hazard Statement(s)	Not relevant
Precautionary Statement(s)	Not relevant

<b><u>2.3 Other Hazards</u></b>	This substance is not classified as PBT or vPvB according to current EY criteria.
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### **SECTION 3 Composition/Information on Ingredients**

#### **3.2 Mixture**

This product mixture contains no ingredients that are classified according to Regulation (EC) No. 1272/2008 (CLP). Ingredients include those given below:

#### **3.3 Hazardous Components**

<u>Product Name</u>	<u>CAS No/</u>	<u>Identifiers</u>		<u>% in mixture</u> (%)	<u>Classification according to Regulation (EC) No. 1272/2008 (CLP)</u>
		<u>EC No.</u>	<u>REACH Registration No.</u>		
Ammonium Sulphate	231-984-1	7783-20-2	01-2119455044-46-XXXX	20-25	Not Classified

### **SECTION 4 First Aid Measures**

#### **4.1 Description of first aid measures**

Inhalation	Remove to fresh air. Get medical attention for any breathing difficulty.
Eye contact	Rinse cautiously with running water. Check for and remove any contact lenses if possible. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing.
Skin contact	Wash affected area thoroughly with soap and water or use an approved skin cleanser. Get medical attention if symptoms are severe or persist after washing.
Ingestion	If swallowed, promptly rinse mouth then drink large amounts of water. Do not induce vomiting. Seek medical attention.
Self-protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. Personal protective equipment for first aid responders is recommended. Wear protective gloves when assisting patient.

#### **4.2 Most important symptoms and effects, both acute and delayed**

Inhalation	After inhalation of decomposition products there is a risk of pulmonary edema. Symptoms can appear later.
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#### **4.3 Indication of any immediate medical attention and special treatment needed**

Immediate/special treatment	Eye bathing equipment should be available on the premises.
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In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

### **SECTION 5 Firefighting Measures**

#### **5.1 Extinguishing media**

Extinguishing media	Use a fire-extinguishing media suitable for the cause of fire.
Unsuitable extinguishing media	Not applicable.

#### **5.2 Special hazards arising from the substance or mixture**

Hazardous combustion products	When heated, ammonia can be released.
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#### **5.3 Advice for firefighters**

Protective actions	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. When heated ammonia can evolve.
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Special protective equipment	Fire-fighters should wear appropriate equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive boots and gloves) conforming to European standard EC 469 will provide a basic level of protection for chemical incidents.
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## **SECTION 6 Accidental Release Measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

#### **6.1.1 for non-emergency personnel**

Protective equipment	Those dealing with major releases should wear full protective clothing including respiratory protection.
Emergency procedures	Remove sources of heat and ignition. If safe to do so turn leaking containers leak-side up to prevent further leakage. Do not touch or walk through spilled product. Evacuate unnecessary personnel.

<b><u>6.1.2 for emergency personnel</u></b>	Use appropriate personal protective equipment.
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<b><u>6.2 Environmental procedures</u></b>	Avoid dispersal of spilt material and runoff. Avoid contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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#### **6.3 Methods and material for containment and cleaning up**

Clean-up procedures	For small spills, move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licenced waste disposal contractor.
.	For large spills, move containers from spill area. Approach the release from upwind. Prevent entry in to sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licenced waste disposal contractor.

<b><u>6.4 Reference to other sections</u></b>	Refer to Section 8, Exposure controls/personal protection, and Section 13, Disposal considerations, of SDS.
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## **SECTION 7 Handling and Storage**

### **7.1 Precautions for safe handling**

Protective measures	Use appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container.
Measures to prevent fire	Keep away from open flames, hot surfaces and sources of ignition.
To prevent the environment	Prevent discharge in to water courses.
Hygiene measures	Handle in accordance with good industrial hygiene and safety procedures. Wash hands with soap and water before eating, drinking, or smoking and again when leaving work.

### 7.2 Condition for safe storage, including any incompatibilities

Technical measures	Ensure storage is in accordance with all applicable local, regional and national regulations. Storage construction should be of non-combustible material. Segregate from incompatible materials.
Packaging materials	Store in original container.
Requirements for storage	Keep container tightly closed and sealed until ready for use. Store in a cool well-ventilated area away from combustible and reducing materials, and food and drink. Containers that have been opened must be resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Keep away from direct sunlight.

7.3 Specific end uses(s) The identified uses for this product are detailed in Section 1.2.

## **SECTION 8 Exposure Control/Personal Protection**

### 8.1 Control parameters

Exposure limit values	Not available.		
DNEL	Workers –	Inhalation, long-term systemic effects	11.167 mg/m <sup>3</sup>
		Dermal, long-term systemic effects	42.667 mg/kg bw/day
	General Population -	Inhalation, long-term systemic effects	1.667 mg/m <sup>3</sup>
		Dermal, long-term systemic effects	12.8 mg/kg bw/day
		Oral, long-term systemic effects	6.4 mg/kg bw/day
PNEC	Freshwater	0.312 mg/l	
	Marine water	0.0312 mg/l	
	Intermittent releases	0.53 mg/l	
	Sewage treatment plant	16.18 mg/l	
	Sediment (freshwater)	0.063 mg/kg sediment dw	
	Soil	62.6 mg/kg soil dw	

### 8.2 Exposure Controls

Appropriate engineering measures	Handling should only take place in adequately ventilated areas. Keep away from foodstuffs, beverages and feed. Immediately remove all contaminated clothing.
Personal protective equipment	If insufficient ventilation, wear respiratory protection. Protective goggles, face-shield or visor should be worn. Protective (heat resistant, chemical resistant, impervious) gloves should be worn. Protective work clothing and footwear should be worn to prevent repeated or prolonged skin contact.
Environmental exposure controls	Do not empty in to drains, sewers, waterways or ground water systems.

## **SECTION 9: Physical and Chemical Properties**

Appearance	Aqueous solution
Odour	Slight Ammoniacal odour
Odour threshold	No data available
pH	No data available
Melting point/range	No data available
Initial boiling point and range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability(solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient n-octanol/water	No data available
Auto ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

## **SECTION 10 Stability and Reactivity**

### **Ammonium Sulphate**

Reactivity	Stable under normal temperatures and pressures.
Chemical Stability	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Avoid contact with incompatible materials, high temperatures and free flames.
Incompatible materials	Strong oxidisers; chlorates, nitrates and nitrites.
Hazardous decomposition products	Ammonia, sulphur oxides

## **SECTION 11 Toxicological Information**

### **11.1 Information on toxicological effects**

#### **Acute Toxicity**

Product mixture	Not classified – lack of data			
Ammonium sulphate	LD50	Oral	Rat	4250 mg/kg bw
		Inhalation	Rat	(3.6 mg/m <sup>3</sup> , 4 hours) no significant effect
	LD50	Dermal	Rat	>2000 mg/kg

#### **Skin corrosion/irritation**

Product mixture	May cause severe skin burns.
Ammonium sulphate	Skin irritation, rabbit: not irritating.

#### **Serious eye damage/irritation**

Product mixture	May cause serious eye damage.
Ammonium sulphate	Eye irritation, rabbit: not irritating

#### **Respiratory or skin sensitisation**

Product mixture	May cause respiratory irritation.
Ammonium sulphate	Skin sensitisation, guinea pig: not sensitising.

Product mixture  
Ammonium sulphate

Not classified – lack of data.  
In vitro – this substance shows no evidence of mutagenic properties.  
In vivo – not classified – lack of data.

Product mixture  
Ammonium sulphate

Not classified – lack of data.  
No evidence of long-term carcinogenicity.

Product mixture  
Ammonium sulphate

Not classified – lack of data.

NOAEL Oral	Rat: Females: 1371.4 mg/kg
	Males: 1288.2 mg/kg

Product mixture  
Ammonium sulphate

Not classified – lack of data.  
Not classified – lack of data.

Product mixture  
Ammonium sulphate

Not classified – lack of data.  
Not classified – lack of data.

Product mixture  
Ammonium sulphate

Not classified – lack of data.  
Not classified – lack of data.

Symptoms/injuries after inhalation  
Symptoms/injuries after skin contact  
Symptoms/injuries after eye contact  
Chronic symptoms

- Can cause respiratory irritation.
- Can cause severe skin burns.
- Can cause serious eye damage.
- Inhalation of the decomposition gases of this product might result in pulmonary edema.

## 12.1 Toxicity

Product mixture  
Ammonium sulphate

No data available.  
LC50 (*Agonus cataphractus*, 96h): 130-210 mg/l.

Product mixture  
Ammonium sulphate

No data available.  
LOEC (*Clarias batrachus*, 12 months): 100mg/l.

Product mixture  
Ammonium sulphate

No data available.  
LC50 (*Perna Viridis*, 96h): 47.7 mg/l.

Product mixture  
Ammonium sulphate

No data available.  
EC10 (*Musculium transversum*, 42 days): 3.7 g/l.

#### Toxicity to aquatic algae and cyanobacteria

Product mixture	No data available.
Ammonium sulphate	EC50 (Chlorella vulgaris, 18d): 2700 mg/l.

#### Toxicity to microorganisms

Product mixture	No data available.
Ammonium sulphate	No data available.

#### 12.2 Persistence and Degradability

##### Biodegradation

Product mixture	No data available.
Ammonium sulphate	No data available.

#### 12.3 Bio-accumulative Potential

##### Bioaccumulation factor

Product mixture	This product does not contain any substances expected to be bioaccumulating.
Ammonium sulphate	No data available.

#### 12.4 Mobility in Soil

##### Absorption/Desorption

Product mixture	This product is soluble in water.
Ammonium sulphate	No data available.

#### 12.5 Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

### **SECTION 13 Disposal Considerations**

#### Waste Treatment Methods

General information:	Dispose of waste to licenced waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Packaging disposal recommendations:	Packaging should be disposed by landfill or incineration as appropriate, in accordance with relevant regulations. Do not remove the label from the packaging unless the packaging has been thoroughly cleaned.
Sewage disposal recommendations:	This product may be hazardous to the aquatic environment. Keep out of sewers and waterways.
Waste disposal recommendations:	Place in an appropriate container and dispose of in a safe way.

### **SECTION 14 Transport Information**

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
UN Number	Not applicable.
UN proper shipping name	Not applicable.
Transport hazard class(es)	No transport warning sign required.
Packing group	Not applicable.
Environmental hazards	This product is not environmentally hazardous according to the criteria of the UN Model Regulations, nor is it a marine pollutant according to the IMDG Code.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II or MARPOL 73/78 and the IBC code	Not applicable.

## **SECTION 15 Regulatory Information**

### **15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture**

Regulation (EC) No 1272/2008 of the European Parliament and of the council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### **15.2 Chemical Safety Assessment**

No chemical safety data assessment has been carried out.

## **SECTION 16 Other Information**

### **DISCLAIMER**

The information in the safety document applies only to the specific product detailed in Section 1 and is not necessarily correct for use with other chemicals/products.

The product information in this data sheet is, to the best of Angus Horticulture's knowledge, correct at the date of publication.

The Manufacturer or Supplier does not accept liability for any loss or damage resulting from reliance on this information. Final determination of the suitability of any product is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, it cannot be guaranteed that these are the only hazards that exist.