



**MATERIAL SAFETY DATA SHEET**

**HYDRANGEA COLOURANT**

**1 Identification of Substance and Supplier**

Product Name: Hydrangea Colourant  
Chemical Name: Aluminium Iron sulphate  
Product Type and Use: Water Treatment  
Supplier: William Sinclair Horticulture Limited  
Firth Road, Lincoln, LN6 7AH  
Telephone 01522 537561  
Fax 01522 513609

**2 Composition**

<b>Hazardous Ingredients:</b>	<b>EC No.</b>	<b>CAS No:</b>	<b>Conc. (wt%)</b>	<b>Hazard</b>	<b>Risk No.</b>
Aluminium Sulphate	233-135-0	10043-01-3	51	Irritant	41
Ferric (III) Sulphate	233-072-9	10028-22-5	4	Irritant	36/38
Water	231-791-2	7732-18-5	45		

**3 Hazard Identification**

Health: Risk of serious damage to eyes. Possible risk for irritation of respiratory organ and skin.  
Fire And Explosion: The product is not combustible.  
Environment: Major discharge into water recipients may lower the pH.

**4 First Aid**

Inhalation: Fresh air, rest.  
Skin Contact: Wash skin with plenty of water.  
Eye Contact: Rinse immediately with water for at least 15 minutes. Keep eye open while flushing. Do not rub eye. Get medical advice.  
Ingestion: Drink a couple of glasses of water or milk. If symptoms persist seek medical advice.  
Medical Information: Use this safety data sheet as information source in any contact with a doctor.

## 5 Fire-Fighting Measures

Extinguishing Media:	The product is not combustible. Use extinguishing media appropriate to the surrounding fire.
Improper Extinguishing Media:	No restrictions.
Fire And Explosion Hazards:	Heating to decomposition temperature might form sulphuric oxide gases.
Protective Equipment For Fire Fighters:	Use protective clothing and respiratory protection. Risk of poisonous gases being formed.

## 6 Accidental Release Measures

Personal Precautions:	Use protective equipment according to section 8.
Environmental precautions:	Sweep up and empty into suitable containers for disposal. Clean with plenty of water, if possible neutralise with lime.
Other Information:	Contact relevant authorities in the event of/when large spill.

## 7 Handling & Storage

Handling Advice:	The product is hygroscopic. Slippery when wet. Handle the product in a way not causing spill and splashes/dust. Eye and respiratory protection must be used when risk of splashes and/or dust.
Storage:	Containers should be of acid resistant material. Protect against humidity to avoid forming lumps. Unlimited storage time when kept dry.

## 8 Exposure Controls and Personal Protection

Ingredient Name	Cas No.		ppm	mg/m <sup>3</sup>	Year	Notes
Aluminium, soluble compounds	10043-01-3	8h		1.0	1996	

Exposure Controls:	The work place and work methods shall be organised in such a way that direct contact with the product is prevented. Eye-wash equipment (water bottle) should be found at the work place.
Respiratory Protection:	Breathing mask with dust filter P2 may be necessary when working under dusty conditions and at insufficient ventilation.
Eye Protection:	Safety glasses with side-shields.
Hand Protection:	Use ordinary rubber gloves.
Protective Clothing:	Wear suitable clothing (long-sleeved, long-legged etc.) if there is a possibility of direct contact or splashes.

## 9 Physical and Chemical Properties

Physical State:	Granulate.
Colour:	Brown.
Odour:	Insignificant.
Decomposition Temp:	650°C
pH solution:	Approx 3 in 10% water solution
Molar Weight:	342.14 (Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> )
Log Pow:	<<3
Bulk Density:	920-980 kg/m <sup>3</sup>
Solubility in water:	approx. 97%
Boiling Point/Range:	110-120°C

## 10 Stability and Reactivities

Stability:	The product is stable under recommended storage and handling conditions.
Conditions/Materials To Avoid:	Unalloyed steel galvanised surfaces. Corrosion may appear when contact with humidity. Protect against humidity to avoid forming lumps.
Hazardous Decomposition Products:	Heating to decomposition temperature might form sulphuric oxide gases.
Other Information:	Storage Stability – Unlimited when dry storage.

## 11 Toxicological Information

Acute oral toxicity	LD <sub>50</sub> rat (mg/kg)(OECD 401)	>5000*) See ref 1)
Acute dermal toxicity		
Acute toxicity by inhalation		

### Other Toxicological Information/Local Effects

\* regarding aluminium sulphate.

See ref 1).

Skin irritation rabbit: not irritating according to OECD Guide-line 404.

Eye irritation rabbit: irritating, risk of severe eye damage, according to OECD Guide-line 405.

Inhalation:	Inhalation may cause irritation to the respiratory system, coughing and shortness of breath.
Skin Contact:	Long term exposure might cause irritation and drying of the skin.
Eye Contact:	Dust and/or splashes might cause pain and tears. Granules might scratch cornea. Risk of serious damage to eyes.
Ingestion:	Ingestion may cause slight irritation to the mucous membranes in the throat, oesophagus and gastrointestinal system, as well as nausea and vomiting.

## 12 Ecological Information

Degradability:	The biological degradability can not be determined. The product is inorganic. Hydrolysis forms harmless aluminium hydroxide in the pH range 5-7. The precipitation is harmless for algae, daphnia and fish. See ref 3)
Bioaccumulation:	Non bio accumulating. Log pow <<3.
Eco toxicity:	LC <sub>50</sub> , Mosquito fish, 96 h, 235 mg/l. Not classified as toxic or harmful to water environment.
Other Information:	Large discharges might have a negative influence on water environment, caused by a local low pH.

## 13 Disposal Considerations

### Directions For Disposal Of Material/Container

Dilute with water, neutralise with lime. Hazardous waste. Destruction according to national legislation. Rinsed packaging material may be recycled.

#### 14 Transport Information

This product is not classified as dangerous cargo.

#### 15 Regulatory Information

Label for Supply:	IRRITANT
Risk Phrases:	41 Risk damage to eyes
Safety Phrases:	22, 26, 28, 37/39 Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable gloves and eye/face protection.
References:	Classification, see ref 2)

#### 16 Other Information

Recommended uses: Hydrangea Colourant ONLY

This safety data sheet provides health and safety information. The product is to be used in a way consistent with best horticultural practice as stated on packaging. 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 at the date of publication. William Sinclair Horticulture Limited disclaims any liability for any loss or damage resulting from reliance on this information.

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