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**MATERIAL SAFETY DATA SHEET**

**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

**1.1 Identification of the Product**

**Sincrostart Fertiliser**

12-14-24 + 3MgO + Trace Elements

A water soluble fertiliser containing the essential major nutrients (N, P, K and Mg) and trace elements (B, Mo, Cu, Fe, Mn and Zn).

It is designed specifically for use in peat-based composts.

**1.2 Company**

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture of inorganic salts (NPK and NPKMg soluble fertilisers.

Containing some of the following ingredients. Ammonium-, nitrate-, phosphate-, sulphate-, potassium oxide, phosphorus pentoxide, magnesium salts, secondary nutrients and micro-nutrients.

**3. HAZARDS IDENTIFICATION**

**3.1 Human Health**

Products are of a low toxicity but prolonged skin or eye contact may cause some irritation.

*Ingestion:* Small quantities are unlikely to cause toxic effects.

Large quantities may give rise to gastro-intestinal disorders.

*Inhalation:* Low toxicity dust but high concentration of air-borne material may cause irritation of the nose and upper respiratory tract with symptoms such as sore throat and coughing. Generally regarded as a nuisance dust with no specific official Occupational Exposure Limit (OEL). Recommend a total inhalable dust standard for nuisance dust of 10 mg/m<sup>3</sup> as an 8 hour Time Weighted Average. See HSE Guidance Notes EH 40 and HSG 173.

Contact with combustible material may cause fire. The product can decompose when heated and emit toxic fumes.

#### 4. FIRST AID MEASURES

##### Product

*Skin contact:* wash the affected area with soap and water

*Eye contact:* irrigate eyes with copious amounts of eyewash solution or water for at least 10 minutes. Obtain medical advice if symptoms persist.

*Ingestion:* **do not** induce vomiting. Give milk or water to drink. Obtain medical attention if more than small quantities have been swallowed.

*Inhalation:* remove from source of exposure to dust. Keep warm and at rest. Obtain medical advice if symptoms persist.

##### Fire and Thermal Decomposition Products

*Inhalation:* remove from source of exposure to fumes. Keep warm and at rest.

#### 5. FIRE-FIGHTING MEASURES

*Suitable extinguishing media:* Water spray, foam or dry chemicals

*Special exposure hazards:* The product is not combustible but can support combustion even in the absence of air. On heating, it melts and further heating can cause decomposition, releasing toxic fumes (nitrogen oxide).

*Protective clothing:* Protective clothing and pressurised air mask

#### 6. ACCIDENTAL RELEASE MEASURES

*Personal precautions:* Avoid eye contact. Wear PVC gloves and safety goggles

*Environmental precautions:* Keep away from drains, surface and groundwater

*Cleaning Method:* Sweep up spilled material and keep in marked container for disposal.

#### 7. HANDLING AND STORAGE

*Handling:* Avoid excessive generation of dust. Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up.

*Storage:* Store in original closed packaging, in dry frost-free place, separate from any combustible materials, acids, bases and reducing or oxidising agents. Note that the product absorbs moisture. Further storage guidance is given in HSE Guidance IND(G)230L.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

*Occupational exposure limits:* Total inhalable dust 10mg/m<sup>3</sup> ; Respirable dust 4mg/m<sup>3</sup>

*Respiratory protection:* Use dust mask if dust concentration is high

*Engineering measures:* Provide ventilation

*Eye protection:* Use safety goggles

*Hand protection:* Use PVC gloves when handling the material

After handling product, wash hands and observe good hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White or greenish crystalline powder
Odour	Odourless.
PH water solution (150g/l)	3-6 (10% solution)
Bulk density	Normally between 1000 -1100kg/m <sup>3</sup> .
Solubility	Soluble in water, extent depends on composition. Up to 150g/l
Other	Most formulations are hygroscopic.

## 10. STABILITY AND REACTIVITY

<i>Stability:</i>	Stable under recommended conditions (see section 7)
<i>Conditions to avoid:</i>	Unnecessary exposure to air and sources of heat. May become caked after long term storage
<i>Exposure to heat source:</i>	Clean up before using welding equipment
<i>Contact with other materials:</i>	Combustible materials, reducing agents, acids/alkalis
<i>Hazardous decomposition Products:</i>	Nitrogen vapours

## 11. TOXICOLOGICAL INFORMATION

<i>Acute Toxicity:</i>	LD50(rat)/ oral > 4000mg/kg
<i>Eye contact:</i>	Irritation
<i>Skin contact:</i>	Irritation after longer exposure
<i>Ingestion:</i>	Large quantities can lead to gastro-intestinal irritation
<i>Chronic:</i>	No adverse effects known

## 12. ECOLOGICAL INFORMATION

<i>Ecotoxicity:</i>	Low toxicity. Not harmful to the environment when used as recommended.
<i>Persistence/ Degradability:</i>	Nitrates follow the natural (de) nitrification process to nitrogen
<i>Biodegradability:</i>	Inherently biodegradable

The product does not show any bio-accumulation phenomena.

## 13. DISPOSAL CONSIDERATIONS

Depending on the degree of contamination, dispose of by use. Inform the appropriate water authority in the event of accidental watercourse contamination.

## **14. TRANSPORT INFORMATION**

Classified as non-hazardous.

## **15. REGULATORY INFORMATION**

### **15.1 EC Directives**

76/116/EEC (Relating to fertilisers)

### **15.2 National Regulations**

The Fertilisers Regulations 1991 and subsequent amendments.

## **16. OTHER INFORMATION**

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

**Date of preparation:** 08/02/05  
**Amended:** 15/02/08