



## SAFETY DATA SHEET

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

<b>Product</b>	<b>Epson Salts</b>
<b>Usage</b>	Fertiliser/ Plant nutrient
<b>Supplier</b>	Westland Horticulture Ltd 14 Granville Industrial Estate Granville Road Dungannon County Tyrone BT70 1NJ
<b>Email</b>	DCoop@WestlandHorticulture.com
<b>Emergency Tel</b>	08700 663566 (UK)

### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

Substance not classified according to EU Directives 67/548/EEC or 1999/45/EC

**Label Elements:**

Not a hazardous substance or mixture according to Regulation (EU) 1272/2008  
The product does not need to be labeled in accordance with EC directives or respective national laws

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Description** Magnesium Sulphate Heptahydrate (MgSO<sub>4</sub>. 7H<sub>2</sub>O)

**Hazardous Ingredients**

This product does not contain any hazardous ingredients in accordance to EU Regulations or National regulations.



#### 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.

**Skin Contact:** Wash off with plenty of water.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses and continue flushing. If eye irritation persists, consult a specialist.

**Ingestion:** Clean mouth with water and drink plenty of water afterwards.

**Most Important Symptoms and Effects, Both Acute and Delayed:** Ingestion may provoke diarrhoea

**Treatment (Medical Advice):** For specialist advice physicians should contact the Poisons Information Service

#### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

The product is not flammable  
Suitable extinguishing media for the surrounding fire should be used

**Extinguishing Media Which Must Not Be Used For Safety Reasons:**

None

**Specific Hazards Arising From the Substance or Mixture:**

Heating or fire can release hazardous products of combustion such as Sulphur oxides

**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.



## 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

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

## 7. HANDLING AND STORAGE

### **Handling:**

- Avoid dust formation
- Avoid inhalation, ingestion and contact with skin and eyes
- When using do not eat, drink or smoke
- For personal protection see Section 8
- The product is not flammable. No special protective measures against fire required

### **Storage:**

- Keep containers closed tightly in a dry, cool and well-ventilated place.
- No special restrictions on storage with other products

### **Specific End Uses:**

Use according to the instruction on the label

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters:** Contains no substances with occupational exposure limit values

### **Exposure Controls**

**Engineering Measures:** Provide adequate ventilation.

**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:** Effective dust mask
- Hand Protection:** Chemical resistant gloves are not required under normal use  
Select gloves based on the physical job requirements.
- Eye Protection:** Safety glasses
- 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:** Crystalline white solid
- Odour:** Very faint

**Other Properties:**

	Value	Temperature	Method
pH	8	25°C	
Density	1.7 g/ml		
Bulk density	980 kg/m <sup>3</sup>		
Water solubility	342 g/l	20°C	

- Oxidising Properties:** Not oxidizing
- Explosive Properties:** Not explosive

## 10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable under normal conditions. No decomposition if stored and applied as directed
- Hazardous Reactions:** Hazardous reactions will not occur under normal transport or storage conditions.
- Hazardous Decomposition:** Heating or fire can release toxic or irritant vapours (Sulphur oxides)
- Conditions To Avoid:** None known.



## 11. TOXICOLOGICAL INFORMATION

The toxicological data has been taken from products of similar composition

- Acute Oral Toxicity:** Median lethal dose rat, LD50 > 2,000 mg/kg. OECD 425
- Acute Inhalation Toxicity:** Not available
- Acute Dermal Toxicity:** Median lethal dose Rat, >2,000 mg/kg. OECD Test Guideline 402
- Skin Irritation:** No skin irritating, EU Method B.46
- Eye Irritation:** Rabbit: No eye irritating. OECD Test Guideline 405
- Sensitization:** Mouse: not a skin sensitizer in animal tests. OECD Test Guideline 429, anhydrous substance
- Long Term Toxicity:** Did not show carcinogenic, teratogenic, mutagenic or reproductive toxicity effects in animal experiments.
- STOT- Repeated Exposure:** No adverse effect has been observed in chronic toxicity tests

## 12. ECOLOGICAL INFORMATION

### Toxicity

- **Toxicity To Fish:** LC50: 680 mg/l, 96h, Pimephales promelas (fathead minnow)  
Based on test results obtained with similar product
- **Toxicity To Aquatic Invertebrates:** LC50: 720 mg/l, 48h, Daphnia magna (water flea)  
Based on test results obtained with similar product
- **Toxicity To Aquatic Plants:** EC50: 2700 mg/l, 18d, Chlorella vulgaris (Fresh water algae)  
Based on test results obtained with similar product
- **Toxicity to bacteria:** EC50: 84mg/l, 0.5h, Photobacterium phosphoreum

### Results of PBT and vPvB Assessment:

- This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)
- This substance is not considered to be very persistent nor very bioaccumulating c (vPvB)



### 13. DISPOSAL CONSIDERATIONS

- Product:** Do not contaminate ponds, waterways or ditches with chemical or used container.  
Check if agriculture use is possible  
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 for recycling 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

None special precautions for user

### 15. REGULATORY INFORMATION

This product is not subject to the following regulations, conventions or codes:

- Regulation (EC) No 2037/2000 of the European Parliament and of the Council on substances that deplete the ozone layer
- Regulation (EC) No 850/2004 of the European Parliament and of the Council on persistent organic pollutants
- Directive 79/117/EEC (3) Concerning the export and import of dangerous chemicals
- Regulation (EC) No 689/2008 of the European Parliament and of the Council concerning the export and import of dangerous chemicals

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

A Chemical Safety Assessment is not required for this substance



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## 16. OTHER INFORMATION

**Recommended uses and restrictions:** Follow the instructions

### Abbreviations and Acronyms

CAS No	Chemicals Abstract Service Registry Number
Regulation (EC) No 1272/2008	Classification, Labelling and packaging
Directive 67/548/EEC	Dangerous Substances Directive
Directive 91/689/EEC	Directive on Hazardous Waste
IMDG Code	International Maritime Dangerous Goods Code
ADR	International carriage of dangerous Goods by Road

### 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.