



Safety Data Sheet

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

Trade name: Epsom salts

Version:2.0

Revision date: 07.01.2021

Print date: 07.01.2021

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

1.1 Product identifier Epsom Salts

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: N/A



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3.2 Description

Substance

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Magnesium Sulphate Heptahydrate (MgO 16%)	CAS: 10034-99-8 EC 231-298-2	10 % MgO	N/A	N/A

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 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.
Keep patient warm and at rest.

Skin Contact: Wash off with soap and plenty of water.

Eye Contact: Rinse cautiously 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: Rinse out mouth with water and drink plenty of water afterwards

4.2 Most important symptoms and effects: Ingestion may provoke diarrhea

4.3 Indication of any immediate medical attention and special treatment needed

Information not available



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5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

The product is not flammable. 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 (SO₂)
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 as required.

Additional Information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid formation / breathing of dust

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 for disposal according to local / national regulations

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 Storage:

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

7.3 Specific End Uses:

Use as fertiliser according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Contains no substances with occupational exposure limit values

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: Wear suitable dust mask with filter type P1 if dust concentration is high

Hand Protection: Not required under normal use.

Eye Protection: Wear safety glasses if dust concentration is high

Skin and Body Protection: Not required under normal use. Protective work clothing

8.2.3 Environmental exposure controls: N/A



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: White crystalline solid

Physical state: solid

Colour: white

Odour: very faint

Odour threshold: none known

9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	8.0	-	-	25 °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	1.0g/l	-	-	-	-	-
Solubility(ies)	-	-	-	-	-	-
Partition coefficient: n-octanol/water	-	-	-	-	-	-
Auto-ignition temperature	-	-	-	-	-	-
Decomposition temperature	->770°C	-	-	-	-	-
Viscosity	-	-	-	-	-	-
Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	-	-	-	-	-	-
Oxidising properties	-	-	-	-	-	-



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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 Hazardous reactions: None known under normal conditions of use

10.4 Conditions To Avoid: None known

10.5 Incompatible Materials: None known

10.6 Hazardous decomposition: Heating or fire can release toxic or irritant vapours (Sulphur oxides)

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

The product has not been tested. Information given is based on data obtained from of similar substances

Acute Toxicity: LD50 Median lethal dose rat, >2,000 mg/kg

Skin corrosion/Irritation: No skin irritation

Eye damage/Irritation: No eye irritation, rabbit

Respiratory or Skin Sensitization: Does not cause skin sensitization, mouse

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



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12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The toxicity data is based on test results obtained with similar products

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

12.2 Persistence and Degradability: Not applicable

12.3 Bioaccumulative Potential: Not applicable

12.4 Mobility in soil: Not applicable

12.5 PBT and vPvB assessment: Epsom salts are not identified as PBT nor vPvB substance

12.6 Other adverse effects: Not applicable

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 is not required for this substance

16. OTHER INFORMATION

16.1 Indication of changes; Revised and updated



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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.