



SAFETY DATA SHEET

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

Product	Jack's Magic Traditional Fertiliser
Usage	Fertiliser/ Plant nutrient
Supplier	Westland Horticulture Ltd 14 Granville Industrial Estate Granville Road Dungannon County Tyrone BT70 1NJ
Email	customerservice@WestlandHorticulture.com
Emergency Tel	01480 443789 (UK)

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:

Aquatic Chronic, 3 H412

Label Elements According to Regulation (EC) No 1272/2008:

Hazard Pictograms None

Signal Word None

Hazard Statements H412: Harmful to aquatic life with long lasting effects

Precautionary Statements




P272 Avoid release to the environment

Other hazards This product does not meet the criteria for PBT or vPvB

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Garden Fertiliser NPK 6 – 8 – 12

Hazardous components/components having designated Workplace Exposure Limits:

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Silicone dioxide	CAS 7631-89-9 EC: 231-545-4	10 – 20 %		Substance with Workplace Exposure Limit
Limestone	CAS: 1317-65-3	10 – 20 %		Substance with Workplace Exposure Limit
Ammonium Nitrate	CAS : 6484-52-2 EC: 229-347-8	≤ 8%		Ox. Sol. 3; H272 Eye Irrit. 2; H319
Ferrous Sulphate Heptahydrate	CAS: 7720-78-7 EC: 231-753-5	≤ 0.1 %		Acute Tox 4; H302 Skin Irrit 2; H315 Eye Irrit 2; H319 Substance with WEL
Copper Sulphate Pentahydrate	CAS: 7758-99-8 EC: 231-847-6	≤ 0.1%		Acute Tox 4. H302 Skin Irrit 2. H315 Eye Irrit 2. H319 Aquatic Acu 1 H400 Aquatic Chr 1. H410

See Section 16 for the full text of the H statements declared above

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: Small quantities are unlikely to cause toxic effects.
Move person to fresh air.
Keep patient warm and at rest.
Get medical advice if symptoms persist or develop

Skin Contact: Wash off with soap and plenty of water.
Get medical advice if irritation persists

Eye Contact: Rinse with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses and continue flushing.
Get medical attention if irritation persist or develop



Ingestion: Do not induce vomiting unless directed to do so by medical personnel
Rinse out mouth and then drink water
Get medical attention if symptoms persist or develop

Information for doctor: No specific treatment, treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use foam, carbon dioxide, dry powder, sand or water
The mixture is not classified as flammable; as such extinguishing media should be chosen as appropriate for surrounding materials.

Specific Hazards Arising From the Substance or Mixture:

As the product contains organic components, fire will produce hazardous products of combustion
Exposure to decomposition products may be a hazard to health

Special Protective Equipment for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus and chemical protective suit

Further Information:

Cool endangered containers with water spray
Do not allow molten material or run-off from fire fighting to enter drains or water courses.
If fire run-off water enters drains or water course, inform the appropriate water authorities immediately

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid formation / breathing of dust
Avoid contact with skin and eyes
Ensure adequate ventilation
Remove all sources of ignition

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

Methods and Materials for Containment and Cleaning Up:

Vacuum or sweep up material. Use water spray to prevent airborne dust where possible
Avoid dry sweeping which creates dust, damp down surfaces
Place into suitable labelled containers for disposal according to local / national regulations

Additional Advice: If large quantities of the product contaminates water courses or drains (including via contaminated soil & vegetation), inform respective authorities.

Reference to other sections:

See Section 8 for information on personal protection equipment
See Section 13 for disposal information



7. HANDLING AND STORAGE

Handling:

- Prevent dust formation and inhalation
- Ensure adequate ventilation
- Avoid contact with eyes and skin
- Do not eat, drink or smoke when using this product
- Take off contaminated clothing and wash before reuse
- Avoid unnecessary exposure to atmosphere to prevent moisture pick up
- Wash hands and observe good hygiene practice after handling this product

Storage:

- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep product in original labeled containers
- Keep away from foodstuffs and beverages

Specific End Uses:

Use as fertiliser according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Ingredients with limit values that require monitoring at the workplace:

Ingredient	Work Exposure Limit (WEL)	
	Long-term Exposure Limit (8-hr TWA reference period)	Short-term Exposure Limit (15 minute reference period)
Limestone	Total Inhalable: 10 mg/m ³ Respirable: 4 mg/m ³	
Iron salts	1mg/m ³	2 mg/m ³
Silica, respirable crystalline	0.1 mg/m ³	

DNELs

Iron Sulphate:

General Population Oral Long Term Systemic Effects:	0.29 mg/kg/day
General Population Dermal Long Term Systemic Effects:	0.29 mg/kg/day
Industry Dermal Long Term Systemic Effects:	0.57 mg/kg/day
General Population Inhalation Long Term Systemic Effects:	0.5 mg/m ³
Industry Inhalation Long Term Systemic Effects:	2.01 mg/kg/day



Copper Sulphate:

Oral Long Term Systemic Effects: 0.041 mg/kg/day
Oral Short Term Systemic Effects: 0.082 mg/kg/day
Inhalation Long Term Local effects (Dust): 1mg/m³
Dermal Long Term Local Effects (Powder): 136.67 mg/kg/day

Exposure Controls

Engineering Measures: Avoid high dust concentration and provide ventilation where necessary

Protective Measures: The use of technical measures should always have priority over the use of personal protective equipment
A risk assessment based on the task being performed and the risks involved should be carried out to determine personal protection equipment required
When selecting personal protective equipment, seek appropriate professional advice
Personal protective equipment should be certified to appropriate standards

Respiratory Protection: Not necessary if room is well ventilated
Use suitable dust respirator if dust concentration is high, in enclosed spaces or insufficient ventilation. Filter P2

Hand Protection: Wear suitable gloves complying with EN420 when handling the product over long periods or if a risk assessment indicates this is necessary

Eye Protection: Wear eye protection when a risk assessment indicates this is necessary to avoid exposure to dust

Skin and Body Protection: Protecting work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid, dark brown/black granules

Odour: Characteristic

Other Properties:

	Value	Temperature	Method
pH (100g/l)	5.5 - 7	20 °C	
Density	1.0 kg/l		

Explosive Properties: Product not classified as flammable or explosive

Oxidising Properties: Product not classified as oxidising



10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable under normal conditions of storage, handling and use
- Hazardous Reactions:** Hazardous reactions will not occur under normal transport or storage conditions.
- Hazardous Decomposition:** Heating or fire can release toxic or irritant vapours and fumes
- Incompatible Materials:** None known
- Conditions To Avoid:** Extremes of temperature

11. TOXICOLOGICAL INFORMATION

- Acute Toxicity:** Not expected to be toxic, however if large quantities are ingested, seek medical advice.
- Information on ingredients below:
- Iron Sulphate:** Median lethal dose Oral, LD50 670mg/kg (Mouse)
 - Ammonium Nitrate:** Median lethal dose Oral, LD50 >2000 mg/kg (Rat)
 - Copper Sulphate Pentahydrate:** Median lethal dose Oral, LD50 480 mg/kg (Rat)
- Skin Irritation:** The mixture is not classified as skin irritant based on formulation components
- Serious Eye Irritation:** The mixture is not classified for eye damage based on formulation components
- Respiratory or Skin Sensitization:** The mixture is not classified as a sensitizer based on formulation components
- Long Term Toxicity:** The mixture is not classified as mutagenic, carcinogen, reproductive toxic or aspiration hazard based on formulation components
- STOT- repeated exposure:** No information available on mixture

12. ECOLOGICAL INFORMATION

- Ecotoxicity:** This product is classified as Harmful to aquatic life with long lasting effects
Information on ingredients below:
- Toxicity To Fish:** **Iron Sulphate:** LC50 Onchorhynchus mykiss (Rainbow trout), 86.2 mg/l, 96h
 - Toxicity To Aquatic Invertebrates:**
 - Ferrous Sulphate:** EC50 Daphnia magna (water flea), 1-10 mg/l, 48h
 - Copper Sulphate:** EC50 Daphnia magna (water flea), 25.0 µg Cu/l



Persistence and Degradability: Information not available on mixture
Bioaccumulative Potential: Information not available on mixture
Mobility in Soil: Information not available on mixture
PBT and vPvB assessment: Information not available on mixture
Other Data: Information not available

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with significant quantities of product
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

14. TRANSPORT INFORMATION

Land Transport (ADR /RID) Not dangerous goods
Maritime Transport (IMDG) Not dangerous goods
Air Transport (IATA-DGR) Not dangerous goods

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance of mixture:

This mixture is classified in accordance with Regulation 1272/2008.

The mixture is also regulated by the following legislation:

EC Directives: 76/116/EEC (Relating to fertilisers)

Chemical Safety Assessment: A Chemical Safety Assessment has not been undertaken for this mixture



16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
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

Full texts of abbreviated H Statements refer to under Section 3:

H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Full text of Classifications

- **CLP/GHS:** Acute Tox 4; Acute Toxicity, Category 4
Aquatic Acu 1; Aquatic Acute Toxicity, Category 1
Aquatic Chr 1; Aquatic Chronic Toxicity, Category 1
Eye Irrit 2; Eye Irritation, Category 2
Ox. Sol. 3; Oxidising Solids, Category 3
Skin Irrit 2; Skin Irritation, Category 2

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.