

RIGBY TAYLOR LTD

PRODUCT SAFETY DATA SHEET: MICROFINE FERTILIZER RANGE

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

Marketed By:

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Product Name: Mascot Microfine 14:4:14+2MgO, 12:0:10+2Fe+2MgO, 8:0:6+4Fe+2MgO, 5:0:15+1Mg.

Use/Description of Product: Microfine Granular organic based fertilizer for fine turf and sports field areas.

2. HAZARDS IDENTIFICATION:

Human Health Not classified as hazardous materials according to EC Directive 67/548/EEC or 1999/45/EC but prolonged skin or eye contact may cause irritation. If handled in normal way unlikely to cause harmful effects.

Ingestion: Small quantities are unlikely to cause toxic effects. Large quantities may be harmful and give rise to gastro-intestinal effects.

Inhalation: High concentrations of air-borne dust may cause irritation of nose and upper respiratory tract. Generally regarded as a nuisance dust with no specific Occupational Exposure Limit (OEL) Recommend a total inhalable dust standard for nuisance dust of 10mg/m³ as an 8 hour Time Weighted Average. See HSE Guidance Notes EH40/2005 and HSG 173

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Contains a blend of fertiliser ingredients none of those included are at a level classified as hazardous. These ingredients may include all or some of the following: Single Superphosphate, Ammonium Sulphate, Potassium Chloride, Lignite, Organic Material, Potassium Sulphate, Urea, Potassium Nitrate, Calcined Magnesite, Urea Formaldehyde, Ferrous Sulphate, and coating materials such as oil, china clay.

	CAS.No.	CONTENT	Information
Ferrous Sulphate (heptahydrate)	07782-63-0	10-21%(product dependent)	Xn;R20/21/22

4. FIRST AID MEASURES :

Ingestion: Do not induce vomiting, give water or milk to drink. Seek Medical Attention

Eye Contact: Irrigate eyes with water for at least 15 minutes. Obtain Medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation persists.

Inhalation: Fine particles regarded as a nuisance dust. Remove from exposure to a well ventilated area. Keep Warm and at rest. Obtain medical advice if symptoms persist.

If any symptoms persist seek medical advise immediately- The empty product package should be shown to the Doctor.

PRODUCT SAFETY DATA SHEET: MASCOT MICROFINE RANGE

5. FIRE FIGHTING MEASURES:

Extinguishing Media: Non-Flammable, non-combustible, In the event of a fire use suitable extinguishing media for the surrounding fire.

Exposure Hazards: May emit toxic fumes under intense heat- decomposition gases may include Ammonia and Oxides of Sulphur.

Protection of fire fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES:

General Precautions: Prevent any spillage entering drains and watercourses. Do not smoke.

Protective Equipment: Use overalls, impervious gloves, rubber boots, face shield or goggles.

Containment: Clean up any spillage promptly, place in a suitable labelled container and store in a safe place ready for disposal.

7. HANDLING & STORAGE:

Storage conditions: Store in original container in a cool, dry and well ventilated area, away from food, drink, and animal feeds. Keep container tightly closed and away from children. Do not store near heat source or strong acids, fuel, or combustible materials. No smoking in storage areas.

Handling: Avoid contact with skin and eyes, avoid excessive dust generation. Do not eat, drink, or smoke when using. Wash thoroughly after handling the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

UK Occupational Exposure Standards (EH40/2005) : None specified for this product. Generally regarded as a nuisance dust with OEL's specified for nuisance dust - OEL (8hr TWA) 10mg/m³ Total inhalable 4mg/m³ (8hr) respirable
Ferrous Sulphate OEL (8hr TWA) 1mg/m³ OEL (STEL 15min) 2mg/m³

Precautions and Engineering Measures: No specific engineering controls are necessary for this product. It is advisable to avoid dust concentrations and provide ventilation in buildings.

Protective Equipment: Wear suitable gloves and overalls when handling. If high dust content present wear suitable dust mask. Wash hands after use and observe good hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Fine grey granular material may have slight organic musty smell.

Solubility: Partially soluble in cold water.

Analysis: See analysis declaration on the original packaging.

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal conditions.

Conditions to avoid: Extreme Temperatures above 260 °C

Materials to avoid: Strong acids and Alkalis, and strong oxidising agents

Hazardous Decomposition Products: In combustion may emit toxic fumes of Ammonia, Nitrous gases and oxides of sulphur. Can be fire feeding to organic materials (Potassium Nitrate is an oxidising agent present in 5:0:15 only)

PRODUCT SAFETY DATA SHEET: MASCOT MICROFINE RANGE

11. TOXICOLOGICAL INFORMATION:

Toxicity Data: Toxicity of the Product will depend on Composition

Ammonium Sulphate:	LD50 (oral, rat) >2000 mg/kg
Potassium Chloride/Sulphate	LD 50 (oral rat) >2000 mg/kg
Urea	LD50 (oral rat) >2000mg/kg
Urea Formaldehyde	LD50 (oral Rat) > 10,000mg/kg
Potassium Nitrate	LD50 (oral rat) > 3750mg/kg
Ferrous Sulphate	LD50 (oral rat) > 1480mg/kg

Skin Irritancy: Prolonged contact may cause irritancy in sensitive subjects.

Eye Irritancy: Can cause irritation to eye due to granular nature of product.

Respiratory Irritancy: Non-Irritant but avoid breathing large amounts of dust. Inhalation of gases evolved during a fire may cause lung effects.

Skin Sensitisation: Non-Sensitiser.

Chronic Effects: None known.

12. ECOLOGICAL INFORMATION:

Mobility: Fertiliser components are partially soluble in water. Keep away from water courses. Report any accidental contamination of water courses to the authorities.

Persistence and degradability: Moderately biodegradable.

Bioaccumulative potential: Potential for bioaccumulation is low based on component properties.

Ecotoxicity: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS:

Disposal should be carried out in accordance with local, state and national legislation. Do not contaminate ponds, waterways or ditches with product or used container. May be disposed of using a reputable waste disposal company.

14. TRANSPORT INFORMATION

Not classified as Hazardous for Transport according to UN Orange Book and international transport codes such as ADR(road), RID (rail), IMDG (sea)

15. REGULATORY INFORMATION

MAPP number- not applicable to this product

EU Directives – 76/116/EEC (relating to Fertilisers)

In accordance with the Chemicals Hazard Information & Packaging for Supply Regulations. CHIP3, this product is not classified as hazardous, however to avoid risk to personnel and the environment, the manufacturers instructions for use should be strictly followed.

National Regulations: The Fertiliser Regulations 1991, SI No.2197 and subsequent amendments apply. The EC Fertiliser (England and Wales) Regulations 2006, SI No. 2486.

Risk Phrases

R20/21/22 – Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S2 - Keep out of reach of children

S14- Keep away from organic materials in case of fire.

S20/21 - When using do not eat, drink or smoke

S24/25 - Avoid contact with skin and eyes S49 Keep in original container

S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show container

PRODUCT SAFETY DATA SHEET: MASCOT MICROFINE RANGE

16. OTHER INFORMATION

The data given in this Safety Data Sheet is correct to the best of our knowledge and experience at the date of this publication, however no liability is accepted for any insufficiency or omission in any case whatsoever. The information given is designed only as guidance for safe handling, use, storage, transportation, disposal and release. Since the conditions of use are beyond the company's control, it is the user to determine the conditions of safe use of this product. Individuals handling this product should be informed under COSHH of the safe handling procedures and have access to the full safety assessment. Rigby Taylor Ltd shall not be liable for any loss or damage resulting from handling, use or from contact with this product.

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