

MATERIAL SAFETY DATA SHEET

Turf Rise Three in One

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

- 1.1. Name of Preparation:**
Turf Rise Three in One 8-4-4 + 2.5MgO +7Fe
- 1.2. Intended Use:**
As a garden herbicide / mosskiller / fertiliser
- 1.3. Supplier Details:**
Angus Horticulture Limited
Polmood
Guthrie
Forfar
Angus DD8 2TW
- Contact: The Safety Officer Telephone: 01241 829049
- 1.4. Emergency Telephone**
01674 674253 (out of office hours only)

2. HAZARDS IDENTIFICATION

- 2.1. Classification of Preparation:**



HARMFUL

- 2.2. Primary Hazards:**
HARMFUL IF SWALLOWED.

- 2.3. Human Health:**

The fertiliser product is not hazardous if handled according to the manufacturers recommendations, it is unlikely to cause harmful effects, however 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 dust may cause irritation of nose and upper respiratory tract. Generally regarded as a nuisance dust. See HSE Guidance Notes EH40/2005 and HSG 173 See section 8 of this document for recommended limits.

Environment: As the fertiliser contains phosphate, heavy spillage may cause adverse environmental impact such as eutrophication in confined surface waters.

3. INFORMATION ON INGREDIENTS

Composition: Contains a blend of fertiliser ingredients , these may include some or all of the following:

Ammonium Sulphate, Urea, Single superphosphate, Potassium Chloride, Ferrous Sulphate, Mono Ammonium phosphate, Di Ammonium Phosphate, Calcified Seaweed, Dolomite, Sand, and coating materials such as oil, and china clay.

HAZARDOUS COMPONENTS -

Ingredient Name	CAS No:	Contents	Information
FERROUS SULPHATE AS HEPTAHYDRATE	07782 – 63 – 0	38.9%	XN; R20/21/22
2,4-D	2008-39-1	0.562%	XN; R22/XI; R36-R38
MECOPROP-P	66423-09-4	0.562%	XN;R20/22 XI; R41

4. FIRST AID MEASURES

4.1. *Any special measures:*

Non

4.2. *Inhalation:*

Remove from source of exposure to fresh air; seek medical attention if irritation develops/persists or breathing becomes difficult. Keep warm and at rest.

4.3. *Skin & eye exposure:*

Rinse immediately with plenty of water, remove contaminated clothing.

Eyes: irrigate with copious amounts of clean water for at least 15 minutes. Seek medical advice if irritation persists.

4.4. *Ingestion:*

Do not induce vomiting or give emetics, give water or milk to drink, seek Medical advice.

5. FIRE FIGHTING MEASURES

5.1. *Suitable extinguishing media:*

Not flammable, non combustible, use extinguishing media as appropriate to the surrounding fire.

5.2. *General recommendations:*

Call the fire brigade, do not allow molten fertiliser to enter drains, provide maximum ventilation.

5.3. *Special hazards, combustion or by products:*

May emit fumes of Ammonia and oxides of sulphur at high temperatures.

5.4. *Protective clothing for fire fighting:*

Suitable protective clothing to prevent contact with skin and eyes and breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1. *Personal precautions:*

Prevent contact with skin and eyes wear overalls, rubber boots, gloves, face shields or goggles.

6.2. *Environmental precautions:*

Do not wash spillages into water courses. If this product enters water course or sewer (including via contaminated soil & vegetation) contact local agency and/or police immediately. Do not burn.

6.3. *Clean & disposal methods:*

Use soil, sand or other absorbent material. Contact specialist waste disposal contractor.

7. HANDLING AND STORAGE

7.1. *Practical precautions & engineering controls for safe handling:*

Open container with care to avoid dust, keep container closed when not in use to prevent moisture pick up.

7.2. *Conditions and quantity limits for safe storage:*

Store in a cool, dry atmosphere in original, labelled containers, keep away from combustible materials, strong acids oxidising agents, food, drink, and animal feeds. No smoking in storage areas.

Refer to manufacturer for maximum safe stacking height.

No storage quantity limits.

Further guidance is given in HSE Guidance IND (G) 230L.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. *Exposure limit values: (EH40/2005)*

No Specific official limits for the fertiliser.

Ferrous Sulphate OEL (8hr TWA) = 1mg/m³ as Fe OEL (STEL 15min) 2mg/m³

Nuisance dust OEL (8hr TWA) = 10mg/m³ Total Inhalable 4mg/m³ (8 hr respirable)

8.2. Precautionary Engineering measures:

As this product may generate dust, local area exhaust ventilation should be considered

8.3. Personal Protective Equipment:

Primary Hazard considered as handling of concentrate. 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: brown granules

Odour: Faint odour

pH (of solutions): solutions in water are acidic usually > 4.5

Boiling point/range: not specified

Flash Point/ Flammability: not classified as flammable

Explosive properties: not classified as explosive

Oxidising properties: not classified as oxidising

Vapour pressure: not specified

Relative Density: normally between 900-1100kg/m³

Solubility: partially soluble in water, extent depends on composition.

Partition coefficient: not specified

Viscosity: not specified

Vapour density: not specified

Evaporation rate: not specified

Analysis:	Nitrogen (N)	8.0%
	Phosphorus Pentoxide (P ₂ O ₅)	4.0%
	Potassium Oxide (K ₂ O)	4.0%
	Iron (Fe)	7.0%
	2,4-D	0.562%
	Mecoprop-P	0.562%

10. STABILITY AND REACTIVITY

10.1. Materials to avoid:

Strong acids and alkalis, and strong oxidising agents.

Conditions to avoid:

Extreme temperatures above 260°C

10.2. Hazardous decomposition products:

Ammonia and oxides of sulphur

11. TOXICOLOGICAL INFORMATION

The Preparation has not been assessed at all for this end-point, so its hazardous property in this regard is not known.

Toxicity Data: Toxicity of the product will depend on composition

Ammonium Sulphate:	LD50 (oral rat) >2000mg/kg
Urea	LD50 (oral rat) >2000mg/kg
Mono Ammonium Phosphate	LD50 (oral rat) >2000mg/kg
Di ammonium Phosphate	LD50 (oral rat) >2000mg/kg
Ferrous Sulphate:	LD50 (oral rat) > 1480mg/kg
2,4-D (as acid)	LD50 (oral rat) >486mg/kg
Mecoprop-P (as acid)	LD50 (oral rat) >431mg/kg
Potassium Chloride/Sulphate	LD50 (oral rat) >2000mg/kg

12. ECOLOGICAL INFORMATION

No harmful effects if used as recommended. Oxygen depletion in aquatic environments is possible at high ferrous sulphate levels.

Not classified as harmful to the environment.

Ecotoxicity:	Low toxicity to Aquatic life.
Mobility:	Fertiliser components are partially soluble in water.
Persistence & degradability:	Moderately degradable
Bioaccumulative potential:	No specific data available

13. DISPOSAL CONSIDERATIONS

13.1. Disposal of used preparation:

Dispose in accordance with local regulations or via specialised waste contractor, keep away from water courses.

13.2. Disposal of packaging:

Burn, bury or use specialist waste contractor in accordance with local regulations.

14. TRANSPORT INFORMATION

Specific Transport requirements:

This preparation is not considered a Dangerous Goods for Transport according to UN Orange Book and International transport codes such as ADR (road), RID (rail), IMDG (sea).

15. REGULATORY INFORMATION

MAPP NUMBER - M14662

This preparation is classified and labelled in accordance with both regulation EU directive 76/116/EEC and The Fertiliser Regulations 1991.SI No. 2197 and subsequent amendments. The EC Fertiliser (England and Wales) Regulations 2006, SI No. 2486

Safety Phrases

S2: Keep out of reach of children and pets

S36/37/39: Wear suitable protective clothing/gloves/ eye/face protection

S46: If swallowed, seek medical advice and show this container or label

Risk Phrases

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

R36-R38 – Irritating to eyes and skin

To avoid risk to personnel and the environment the manufacturers instructions for use should be strictly followed.

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. Angus Horticulture Ltd shall not be liable for any loss or damage resulting from handling, use or from contact with this product.

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