

SAFETY DATA SHEET



Product Name:	SIERRAFORM 16-00-15	Reference No: 291
Version No. 1	Revision date N/A	Date of Introduction: September 2002

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name	SIERRAFORM 16-00-15		
Common name of active ingredient	Fertiliser Salts		
Intended use	Turf fertiliser		
Company Identification	Scotts UK Professional Paper Mill Lane Bramford Ipswich IP8 4BZ Telephone +44 (0) 1473 830492		
Emergency Telephone	01865 407333 (24hr)		

2. COMPOSITION / INFORMATION ON INGREDIENTS

JBA No: 021012
NPK: 16-00-15

Chemical Characterisation PREPARATION OF METAL SALTS

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
MANGANESE SULPHATE	7785-87-7	232-089-9	Xn: R48/20/22 N: R51, 53	1-2%
FERROUS SULPHATE	7720-78-7	231-753-5	Xn: R22	5-10%

3. HAZARDS IDENTIFICATION

Physicochemical:	NOT CLASSIFIED
Health:	
General	This product is not classified and unlikely to be hazardous under normal conditions of use. The preparation contains substances that have an Occupational Exposure Limit (OEL)
Ingestion	Very low hazard – unlikely to cause a problem.
Eye contact	Possible irritation.
Skin contact	Very low skin absorption hazard and possible irritation.
Inhalation	Very low hazard.
Environmental:	NOT CLASSIFIED. MAY BE HARMFUL TO AQUATIC ORGANISMS.

4. FIRST AID MEASURES

General information	Not applicable
Inhalation	Remove patient to fresh air.
Skin contact	Wash areas of skin affected with soap and plenty of water.
Eye contact	Wash out eye thoroughly with plenty of water until irritation subsides. If necessary, seek medical advice.
Ingestion	Give copious water to drink. Seek medical advice.

5. FIRE FIGHTING MEASURES

General hazard	THE PRODUCT IS NON COMBUSTIBLE
Extinguishing media	To suit local surroundings (e.g. water, foam, carbon dioxide, dry chemical powder)
Extinguishing media to avoid	None
Special exposure hazards	The thermal decomposition products released (e.g. NO _x , CO _x , ammonia) should be considered toxic if inhaled. In a fire the product can smoulder – damp down with water. Prevent fire water run-off entering drains.
Protective equipment	Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Adhere to personal protective measures (see section 8). Avoid raising dust. Take up mechanically (e.g. sweep or vacuum up). Label container and dispose of as prescribed.
Environmental considerations	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

7. HANDLING & STORAGE

Advice on safe handling	Handle in accordance with good hygiene and safety practice. Avoid inhalation of dust.
Storage conditions	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry away from foodstuffs.
Shelf life	At least 2 years.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls. LTEL (8 hour TWA): 5 mg/m ³ OES for manganese and compounds (as Mn) (EH40/2002) LTEL (8 hour TWA): 1 mg/m ³ (OES for iron salts as Fe, EH40/2002) STEL (15 min): 2 mg/m ³ (OES for iron salts as Fe, EH40/2002)
Engineering controls	Ensure adequate ventilation of working area.
Personal protection	Observe normal standards for handling chemicals. Wash hands before breaks and after use. Personal protective equipment is not normally required – gloves can be worn for personal hygiene. In case of accidental spillage of bulk product, wear personal protective equipment appropriate to the task (see below)
Eye protection	Faceshield – BSEN166F
Skin protection	Suitable gloves
Respiratory protection	Dust mask - EN149:2001FFPI (e.g. if ventilation is insufficient and dust raised)
Other protection	Protective overall.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Granules (mean particle size 0.4-2 mm)
Colour	Greyish
Odour	Odourless
pH	4-7
Boiling pt / range	Not applicable
Melting pt / range	Not determined
Flash point	Not applicable
Autoflammability	Not applicable
Specific gravity	Not determined
Viscosity	Not applicable
Water solubility	Partly soluble

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions of handling.
Thermal decomposition	Decomposes on heating.
Conditions to avoid	Keep away from heat and combustible materials.
Material to avoid	None known
Hazardous reactions	None known
Hazardous decomposition products	Decomposition products released in a fire (e.g. NO _x , ammonia, oxides of carbon) should be considered as probably harmful if inhaled.
Further information	None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Oral LD ₅₀	Rat	750mg/kg	Data for ferrous sulphate
	Dermal LD ₅₀			No data available for the product
	Inhalation LD ₅₀			No data available for the product
Dermal compatibility	No data available for the product			
Eye/respiratory tract compatibility	No data available for the product			
Further information	According to experience, the product is considered to be harmless to health if handled in the correct manner.			

12. ECOLOGICAL INFORMATION

Acute toxicity	No data available
Degradability	No data available
Further information	Since manganese sulphate is classified as toxic to the aquatic environment, do not allow product to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

13. DISPOSAL CONSIDERATIONS

Advice on disposal	In accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations, 1996) or incineration, after consultation with the operator.
Contaminated packaging	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

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14. TRANSPORT INFORMATION

United Nations number Not classified for transport.

15. REGULATORY INFORMATION

Classification & labelling In accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3], the product is not classified.

Risk phrases NOT REQUIRED

Safety phrases NOT REQUIRED

16. OTHER INFORMATION

Risk phrases referred to in section 2, for composite ingredients

R22: Harmful if swallowed

R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R51: Toxic to aquatic organisms

R53: May cause long-term adverse effects in the aquatic environment.

Further information For further advice authorised persons (e.g. doctor) may contact the National Poisons Information Service Centre:

UK national number: 0870 600 6266

Eire (Dublin) number: 00 3531 837 9964 or 00 3531 837 9966

Sources of data The Approved Supply List, EH40/2002 and other suppliers' safety data sheets

Date of issue 30-07-2002

The information on this sheet is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product.

It is not applicable to unusual or non standard uses of the product nor where instructions or recommendations are not followed.