

SAFETY DATA SHEET

Sierraform® 18-09-18+Fe+Mn (8/10 weeks).

Conforms to 93/112/EC and ISO 11014-1

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

Product name : Sierraform® 18-09-18+Fe+Mn (8/10 weeks).
Item number : 41210102*.
Manufacturer/Supplier : Scotts International B.V.
Nijverheidsweg 1-5
6422 PD Heerlen
The Netherlands.
Emergency telephone number : As long as no emergency telephone number is available in Europe, please contact in case of an emergency: ++31 455609100. UK: 01865 407333

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation.

Information on hazardous ingredients

This product does not have to be classified according to the EU regulations (67/548/EEC-88/379/EEC).

Chemical name	CAS No.	%	EC Number	Symbol	R-Phrases
Manganese sulphate, MnSO ₄	7785-87-7	0.30	232-089-9	Xn, N	48/20/22, 51/53
Ironsulphate, FeSO ₄	7720-78-7	1.20	-	Xn	22

Occupational Exposure Limit(s), if available, are listed in section 8

3. HAZARDS IDENTIFICATION

Most important hazards : No physical/chemical, environmental or human health hazards have been reported or known.

4. FIRST-AID MEASURES

Effects and symptoms : No effects or symptoms occur.

First-aid measures

Inhalation : Dusty conditions are unlikely if product is used as intended and product-coating remains intact. However, if prolonged inhalation of dust occurs, remove victim to fresh air. Consult a doctor in the event of any complaints.

Ingestion : Wash out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Make victim drink plenty of water. Consult a doctor in the event of any complaints.

Skin contact : Wash off with water and soap. Consult a doctor in the event of any complaints.

Eye contact : Wash out with water. Consult a doctor in the event of any complaints.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : Water, water spray.

Special fire-fighting procedures : In case of fire and/or explosion do not breathe fumes. Evacuate all personnel to a safe area. Cool exposed containers with water spray.

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Unusual fire/explosion hazards : Product smoulders! In case of fire, cool with water or waterspray.
Hazardous thermal (de)composition products : Nitrogen oxides, ammonia and carbon dioxide.
Protection of fire-fighters : Use appropriate protection. In case of insufficient ventilation, wear suitable respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Gloves are recommended. Respiratory protection is not required if good ventilation is maintained.
Environmental precautions : Not applicable.
Methods for cleaning up : Collect spilled material. Wash away remainder with plenty of water.

7. HANDLING AND STORAGE

Handling : Gloves are recommended. Prevent formation of clouds of dust.
Storage : Keep away from food, drink and animal feedingstuffs. Keep away from combustible material. Keep out of the reach of children.
Packaging materials
Suitable : Paperbags or Bulk.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hygiene measures : When using do not eat, drink or smoke. Follow good housekeeping practices. Wash hands thoroughly after handling.

Occupational Exposure Limits

<u>Chemical name</u>	<u>OEL (United Kingdom)</u>
Ironsulphate, FeSO ₄	1 mg/m ³
Manganese sulphate, MnSO ₄	5 mg/m ³ .

Personal protective equipment : No specific personal protection equipment is required.

Other information : TWA (Total dust): 10 mg/m³.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Granulated fertilizer.
Colour : Brownish and grey.
Odour : Odourless.
Bulk density : 700-800 kg/m³.
Solubility in water : Partly soluble.

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.
Conditions to avoid : Keep away from heat. Keep away from combustible material.
Hazardous reactions : Not applicable.
Hazardous decomposition products : Nitrogen oxides, ammonia and carbon dioxide.

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11. TOXICOLOGICAL INFORMATION

No toxicological information is available.

12. ECOLOGICAL INFORMATION

No ecological information is available.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Use up product completely. Packaging material is industrial waste.
Disposal according to the local legislation.

14. TRANSPORT INFORMATION

International transport regulations

Land - Road/Railway : This product is not classified according to ADR/RID.

Inland waterways : This product is not classified according to ADNR.

Sea : This product is not classified according to IMDG.

Air : This product is not classified according to IATA.

National transport regulations

United Kingdom : No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

Classification : This product does not have to be classified according to the EU regulations (67/548/EEC-88/379/EEC)

National regulations

United Kingdom : No additional national regulations are known to the supplier

16. OTHER INFORMATION

This information contained herein is, to the best of Scott's knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Scotts shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Scotts shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

HISTORY

Date of printing : 28-10-2003

Date previous issue : 17-04-2003

Date of issue : 01-05-2003

Version : 008.00.00

The version-number is made up of three parts; part 1 is a general information code, part 2 a country-specific code and part 3 a language-specific code (Country: Great Britain; Language: English)

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Prepared by : Technology Department.