



# Material Safety Data Sheet

According to EC Regulation 1907/2006

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Revision Number: 1\*\*\*

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

### Identification of the substance or preparation

MSDS Ref. No.: SCSDS407  
Product name: Sierrasol® Iron

### Use of the Substance/Preparation

Recommended use: For use only as a horticultural turf treatment

Company/Undertaking Identification  
• Scotts UK Professional, Paper Mill Lane, Bramford, Ipswich, Suffolk IP8 4BZ  
United Kingdom

Emergency telephone number: • ++44 (0) 1865 407333 (24h)\*\*\*

Email: INFO-MSDS@Scotts.com

## 2. HAZARDS IDENTIFICATION

### Classification

Xn - Harmful

### Most important hazards

Harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Iron sulphate, FeSO <sub>4</sub> +1H <sub>2</sub> O	7720-78-7	> 25%	231-753-5	Xn;R22 R36/38***

NE = Non-Established

For the full text of the R phrases mentioned in this Section, see Section 16

#### 4. FIRST AID MEASURES

<b>General advice:</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Ingestion:</b>	If swallowed, seek medical advice immediately and show this container or label.
<b>Inhalation:</b>	Move person to fresh air. If symptoms persist, call a physician.
<b>Skin contact:</b>	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
<b>Eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**  
Carbon dioxide (CO<sub>2</sub>). Powder. Water spray\*\*\*

**Unsuitable extinguishing media:**  
High volume water jet

**Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:**

Thermal decomposition can lead to release of irritating gases and vapours.

**Special protective equipment for firefighters:**

Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Use personal protective equipment.

**Environmental precautions:**

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**Methods for cleaning up:**

Take up mechanically and collect in suitable container for disposal. Avoid dust formation.

#### 7. HANDLING AND STORAGE

**Handling:**

**Technical measures/precautions:**

Avoid dust formation. Ensure adequate ventilation.

**Safe handling advice:**

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash off splashes (immediately). Wash hands and exposed skin after use / handling.

**Storage:**

**Technical measures/storage conditions:**

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs.

**Incompatible products:** Do not store together with alkalis (caustic solutions)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures to reduce exposure:** Ensure adequate ventilation.

### Occupational exposure controls

#### Personal protective equipment

<b>Respiratory protection:</b>	Half mask with a particle filter p2 (bs en 143).
<b>Hand protection:</b>	Wear suitable gloves.
<b>Eye/face protection</b>	Safety glasses with side-shields.
<b>Skin and body protection:</b>	<b>Wear suitable protective clothing***</b>
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Wash hands before stopping and immediately after handling.

### Exposure limit values

*Iron sulphate, FeSO<sub>4</sub>+1H<sub>2</sub>O*

Belgium - 8 Hr VLE	1 mg/m <sup>3</sup>
Finland - Occupational Exposure Limits - 8 hour	1 mg/m <sup>3</sup>
Netherlands - OEL - MACs:	1 mg/m <sup>3</sup>
Norway - 8 h:	0.01 mg/m <sup>3</sup>
Portugal - TWAs	1 mg/m <sup>3</sup> TWA***
Spain - Valores Limite Ambientales - VLE	1 mg/m <sup>3</sup> VLA-ED***
UK EH40 WEL:	LTEL (8 hr TWA) 1 mg/m <sup>3</sup> STEL (15 min) 2mg/m <sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Physical State:</b>	Solid***
<b>Appearance:</b>	Crystalline
<b>Color:</b>	Light green
<b>Odor:</b>	Slight

### Important Health Safety and Environmental Information

<b>Boiling point/range:</b>	Not determined
<b>Density:</b>	1.9g/cm <sup>3</sup>

### Other information

**pH:** 2 (1 % solution in water.)

## 10. STABILITY AND REACTIVITY

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<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	None known.
<b>Materials to avoid:</b>	No information available.
<b>Hazardous decomposition products:</b>	No decomposition if stored normally.

## 11. TOXICOLOGICAL INFORMATION

### Component information

*Iron sulphate, FeSO<sub>4</sub>+1H<sub>2</sub>O*  
LD<sub>50</sub>/oral/rat = 1389 mg/kg

### Product information

#### Local effects

<b>Skin effects:</b>	May cause skin irritation in susceptible persons.
<b>Eye effects:</b>	May cause eye irritation with susceptible persons.
<b>Inhalation:</b>	No information available.
<b>Ingestion:</b>	Harmful if swallowed.
<b>Sensitization:</b>	No sensitization.

## 12. ECOLOGICAL INFORMATION

### Product information

**Aquatic toxicity:**  
No information available.

### Component information

*Iron sulphate, FeSO<sub>4</sub>+1H<sub>2</sub>O*

<b>Ecotoxicity effects</b>	EC <sub>50</sub> /48h/daphnia = >100mg/l LC <sub>50</sub> /96h/rainbow trout = >72.5mg/l (6d) EC <sub>50</sub> /72h/algae = 22mg/l
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## 13. DISPOSAL CONSIDERATIONS

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**Waste Disposal Methods:** Do not contaminate ponds, waterways or ditches with chemical or used container. Do not empty into drains. Dispose of in accordance with local regulations and national regulations.

**Contaminated packaging:** Do not re-use container for any other purpose and dispose of safely \*\*\*

### 14. TRANSPORT INFORMATION

#### Product information

**Physical State:** Solid\*\*\*

#### ADR/RID

**UN-No:** Not classified for transport

#### IATA

**UN-No:** Not classified for transport

#### IMO / IMDG

**UN-No:** Not classified for transport

### 15. REGULATORY INFORMATION

#### Indication of danger:

Xn - Harmful.

Xn



#### R -phrase(s)

R22 - Harmful if swallowed.

#### S -phrase(s)

S 2 - Keep out of the reach of children.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46 - If swallowed, seek medical advice immediately and show this container or label.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

#### Registration number UK/Eire

Not applicable

### 16. OTHER INFORMATION

#### Text of R Phrases mentioned in Section 3

R22 - Harmful if swallowed.

<b>16. OTHER INFORMATION</b>
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**Reason for revision:**

\*\*\* Indicates changes since the last revision. This version replaces all previous versions

**Prepared by:**

Regulatory Affairs Department.

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**End of Safety Data Sheet**