



Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 22-Jan-2007

Revision Number: 0

Revision date:

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

Identification of the substance or preparation

MSDS Ref. No.: 4015.01.08 XU/W50
Product name: Sierraform GT Momentum
22+5+11 +2MgO+Te

Use of the Substance/Preparation

Recommended use: Granulated fertilizer.

Company/Undertaking Identification

- Scotts International BV
Nijverheidsweg 1-5
6422 PD Heerlen (NL)
Tel: ++31 (0) 45-5609100
Fax: ++31 (0) 45-5609190

Emergency telephone number: • As long as no emergency telephone number is available in Europe, please contact in case of an emergency: ++31 (0) 45-5609100

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

| Components | CAS-No | Weight % | EC-No. | Classification |
|--|------------|----------|-----------|----------------|
| Talc | 14807-96-6 | 1 - 5% | 238-877-9 | NE |
| Potassium sulphate, K ₂ SO ₄ | 7778-80-5 | 10 - 25% | 231-915-5 | NE |
| Ironsulphate, FeSO ₄ +1H ₂ O | 7720-78-7 | 1 - 5% | 231-753-5 | Xn;R22 |

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

3. HAZARDS IDENTIFICATION

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3. HAZARDS IDENTIFICATION

Classification

The product is non-dangerous in accordance with Directive 1999/45/EC

Most important hazards

None

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

- General advice:** If you feel unwell, seek medical advice (show the label where possible).
- Ingestion:** Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. In case of respiratory difficulties practice oxygenotherapy. Possible symptoms are nausea and/or vomiting.
- Inhalation:** In case of shortness of breath, give oxygen. Possible symptoms are coughing and/or dyspnoea. Move to fresh air. If symptoms persist, call a physician.
- Skin contact:** If a person feels unwell or symptoms of skin irritation appear, consult a physician.
- Eye contact:** Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
- Protection of first-aiders:** Low hazard for usual industrial or commercial handling.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use dry chemical, CO₂, water spray or "alcohol" foam.

Unsuitable extinguishing media:

No information available

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:

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Wear personal protective equipment.

Environmental precautions:

Prevent product from entering drains. Do not contaminate surface water.

Methods for cleaning up:

Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air.

7. HANDLING AND STORAGE

Handling:**Technical measures/precautions:**

No special technical protective measures required.

Safe handling advice:

Keep away from open flames, hot surfaces and sources of ignition.

Storage:**Technical measures/storage conditions:**

Keep away from heat and sources of ignition. Keep away from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well. Keep at temperatures between 0 °C and 40 °C .

Incompatible products:

Not applicable

Specific use(s):

Granulated fertilizer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation.

Occupational exposure controls**Personal protective equipment****Respiratory protection:**

Not applicable.

Hand protection:

PVC or other plastic material gloves.

Eye/face protection:

Safety glasses.

Skin and body protection:

Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Hygiene measures

Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

Exposure limit values**Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

Talc

| | |
|---|--------------------------------|
| Austria - MAKs | 5 mg/m ³ MAK |
| Belgium - 8 Hr VLE | 2 mg/m ³ VLE |
| Czech Republic OEL | Listed |
| Finland - Occupational Exposure Limits - 8 hour | 0.5 fibers/cm ³ TWA |
| | 5 mg/m ³ TWA |
| Germany TRGS900: | 2 A mg/m ³ |
| Netherlands - OEL - MACs: | 1 mg/m ³ MAC |
| Portugal - TWAs | 2 mg/m ³ TWA |
| Spain - Valores Limite Ambientales - VLE | 2 mg/m ³ VLA-ED |
| Sweden - OEL - 8 Hour | 1 mg/m ³ LLV |
| | 2 mg/m ³ LLV |
| UK EH40 WEL: | 1 mg/m ³ TWA |

Ironsulphate, FeSO4+1H2O

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

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

| | |
|------------------------|--------------------------|
| Physical State: | Solid |
| Appearance: | Powder |
| Color: | Dark grey, Brownish |
| Odor: | No information available |

Important Health Safety and Environmental Information

| | |
|-----------------------------------|--------------------|
| Flammability (solid, gas): | Non-flammable |
| Solubility: | Moderately soluble |

Other information

| | |
|-----------------------------------|------------------------------|
| Bulk density: | 800 - 1100 kg/m ³ |
| Decomposition temperature: | > 150°C |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Stable under recommended storage conditions. |
| Conditions to avoid: | Keep away from open flames, hot surfaces and sources of ignition. |
| Materials to avoid: | Combustible material. |
| Hazardous decomposition products: | No decomposition if stored normally Thermal decomposition can lead to release of irritating gases and vapours |

11. TOXICOLOGICAL INFORMATION

Component information

| | |
|----------------------------------|------------|
| <i>Potassium sulphate, K2SO4</i> | |
| LD50/oral/rat = | 6600 mg/kg |

Ironsulphate, FeSO4+1H2O

LD50/oral/rat = 1389 mg/kg

Other information on acute toxicity: No information available

Product information**Local effects**

Skin effects: May cause skin irritation in susceptible persons.

Eye effects: Contact with eyes may cause irritation.

Inhalation: May cause sensitization by inhalation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea .

12. ECOLOGICAL INFORMATION**Product information**

Water Endangering Class (WGK): 1 (Scotts classification)

Component information*Potassium sulphate, K₂SO₄***Ecotoxicity effects**

LC50/96h/rainbow trout =890 mg/l

*Ironsulphate, FeSO₄·1H₂O***Ecotoxicity effects**EC50/48h/daphnia = >100mg/l
LC50/96h/rainbow trout = >72.5mg/l (6d)
EC50/72h/algae = 22mg/l**13. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods: Use up product completely. Packaging material is industrial waste

Contaminated packaging: Empty containers can be landfilled, when in compliance with the local regulations

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:

This product does not have to be classified according to the EU regulations.

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 2

R22 - Harmful if swallowed.

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