

# Scotts Material Safety Data Sheet

# According to EC Regulation 1907/2006

Print date: 10-Dec-2010 Revision date: 10-Dec-2010 Revision Number: 3

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

Identification of the substance or preparation

MSDS Ref. No.: 4121.01.08

Product name: Sierraform® GT 18+6+18

Use of the Substance/Preparation

Recommended use: Granulated fertilizer

Company/Undertaking Scotts International BV

Identification Nijverheidsweg 1-5

6422 PD Heerlen (NL) Tel: ++31 (0) 45-5609100 Fax: ++31 (0) 45-5609190

Emergency telephone number: +44 1235 239 670 (24h)

**Email** INFO-MSDS@Scotts.com

# 2. HAZARDS IDENTIFICATION

### Classification

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

### Most important hazards

None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Magnesite, Mg(CO3)2	546-93-0	1 - 5%	208-915-9	NE
Copper sulphate, CuSO4	7758-98-7	< 1%	231-847-6	N;R50/53 Xi;R36/38 Xn;R22

Revision date: 10-Dec-2010 Page 1 of 7 MSDS Ref. No.: 4121.01.08

### Sierraform® GT 18+6+18

Components	CAS-No	Weight %	EC-No.	Classification
Iron sulphate, FeSO4+1H2O	7720-78-7	1 - 5%	231-753-5	Xn;R22 R36/38
Talc	14807-96-6	1 - 5%	NE	NE NE
Manganese sulphate, MnSO4	7785-87-7	< 1%	232-08-99	N;R51/53 Xn;R48/20/22
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	< 1%	231-298-2	NE

NE = Non-Established

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

### 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 vommiting.

**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.

# 5. FIRE-FIGHTING MEASURES

# Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area.

### Unsuitable extinguishing media:

Not applicable

# 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.

Revision date: 10-Dec-2010 Page 2 of 7

MSDS Ref. No.: 4121.01.08 Sierraform® GT 18+6+18

### Methods for cleaning up:

Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air. Prevent product from entering drains.

# 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** 

Magnesite, Mg(CO3)2

 Belgium - 8 Hr VLE
 10 mg/m³ TWA

 France INRS (VME)
 10 mg/m³ VME

 Spain - Valores Limite Ambientales - VLE
 10 mg/m³ VLA-ED

 UK EH40 WEL:
 LTEL (8hr TWA) 10mg/m³

Copper sulphate, CuSO4

 Finland - Occupational Exposure Limits - 8 hour
 1 mg/m³ TWA

 Germany (DFG) - MAK
 0.1 mg/m³ MAK

 Sweden - OEL - 8 Hour
 0.2 mg/m³ LLV

 1 mg/m³ LLV
 1 mg/m³ LLV

Revision date: 10-Dec-2010 Page 3 of 7

### Sierraform® GT 18+6+18

Iron sulphate, FeSO4+1H2O

Belgium - 8 Hr VLE 1 mg/m³
Finland - Occupational Exposure Limits - 8 hour 1 mg/m³
Netherlands - OEL - MACs: 1 mg/m³
Norway - 8 h: 0.01 mg/m³
Portugal TMAs

Portugal - TWAs 1 mg/m³ TWA

Spain - Valores Limite Ambientales - VLE 1 mg/m³ VLA-ED

UK EH40 WEL: 1 TFL (8 hr TWA)

LTEL (8 hr TWA) 1 mg/m³ STEL (15 min) 2mg/m³

Talc

 Belgium - 8 Hr VLE
 2 mg/m³ TWA

 Czech Republic OEL
 = 10 mg/m³ TWA

 = 2.0 mg/m³ TWA

Finland - Occupational Exposure Limits - 8 hour 0.5 fibers/cm3 TWA 5 mg/m³ TWA

 Sweden - OEL - 8 Hour
 1 mg/m³ LLV

 2 mg/m³ LLV

 UK EH40 WEL:
 1 mg/m³ TWA

Manganese sulphate, MnSO4

 Belgium - 8 Hr VLE
 0.2 mg/m³

 Czech Republic OEL
 = 1 mg/m³ TWA

 Finland - Occupational Exposure Limits - 8 hour
 0.5 mg/m³

 Germany TRGS900:
 0.5 mg/m³ TWA

 Germany (DFG) - MAK
 0.5 mg/m³ MAK

 Netherlands - OEL - MACs:
 1 mg/m³

 Norway - 8 h:
 2.5 mg/m³

 Norway - 8 h:
 2.5 mg/m³

 Portugal - TWAs
 0.2 mg/m³ TWA

 Spain - Valores Limite Ambientales - VLE
 0.2 mg/m³ VLA-ED

 Sweden - OEL - 8 Hour
 0.1 mg/m³ LLV

 0.2 mg/m³ LLV
 0.2 mg/m³ LLV

UK EH40 WEL: 5 mg/m<sup>3</sup>

Sodium molybdate, Na2MoO4+2H2O

 Belgium - 8 Hr VLE
 5 mg/m³ TWA

 Czech Republic OEL
 5 mg/m³ TWA

 Finland - Occupational Exposure Limits - 8 hour
 6 mg/m³

 France - Valeurs Limites d'exposition (VLE)
 5 mg/m³

 France INRS (VME)
 5 mg/m³ TWA

 Norway - 8 h:
 5 mg/m³ TWA

 Portugal - TWAs
 0.5 mg/m³ TWA

 Spain - Valerce Limite Ambientales - VI E
 5 mg/m³ VI A EF

 Spain - Valores Limite Ambientales - VLE
 5 mg/m³ VLA-ED

 Sweden - OEL - 8 Hour
 10 mg/m³ LLV

 5 mg/m³ LLV
 5 mg/m³ LLV

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# **General Information**

Physical State: Solid Appearance: Granular

Revision date: 10-Dec-2010 Page 4 of 7

### MSDS Ref. No.: 4121.01.08 Sierraform® GT 18+6+18

Color:Dark grey, BrownishOdor:No information available

### **Important Health Safety and Environmental Information**

**Decomposition temperature:** > 150°C

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

Other information

# 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**

Copper sulphate, CuSO4

**LD50/oral/rat** = 960 mg/kg

Iron sulphate, FeSO4+1H2O

LD50/oral/rat = 1389 mg/kg

Manganese sulphate, MnSO4

**LD50/oral/rat** = 9 g/kg

Sodium molybdate, Na2MoO4+2H2O

**LD50/oral/rat** = 4000 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.

Revision date: 10-Dec-2010 Page 5 of 7

# 12. ECOLOGICAL INFORMATION

### **Product information**

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

**Component information** 

Copper sulphate, CuSO4

Ecotoxicity effects EC50/48h/daphnia =0.8 mg/l

Iron sulphate, FeSO4+1H2O

Ecotoxicity effects EC50/48h/daphnia = >100mg/l

LC50/96h/rainbow trout = >72.5mg/l (6d)

EC50/72h/algae = 22mg/l

Manganese sulphate, MnSO4

Ecotoxicity effects EC50/48h/daphnia => 100 mg/l

Sodium molybdate, Na2MoO4+2H2O

Ecotoxicity effects LC50/96h/rainbow trout => 2800 g/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

<u>IATA</u>

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

IMO / IMDG

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

Revision date: 10-Dec-2010 Page 6 of 7

MSDS Ref. No.: 4121.01.08 Sierraform® GT 18+6+18

# 15. REGULATORY INFORMATION

### Indication of danger:

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

# **Germany only**

Not applicable

# 16. OTHER INFORMATION

### Text of R Phrases mentioned in Section 3

R22 - Harmful if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36/38 - Irritating to eyes and skin.

### 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** 

Revision date: 10-Dec-2010 Page 7 of 7