

# Scotts. Material Safety Data Sheet

# According to EC Directive 2001/58/EC

Print date: 06-Mar-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.: 4102.01.08 XU/W50 **Product name:** Sierraform K-Step 6+0+27+2MgO+Te

NPK 6+0+27 / 6+0+22.4 Synonyms:

Use of the Substance/Preparation

Recommended use: Granulated fertilizer.

Company/Undertaking Scotts International BV Identification Nijverheidsweg 1-5

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# 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Sand	14808-60-7	5 - 10%	238-878-4	NE
Ironsulphate, FeSO4+1H2O	7720-78-7	1 - 5%	231-753-5	Xn;R22
Talc	14807-96-6	1 - 5%	238-877-9	NE
Potassium sulphate, K2SO4	7778-80-5	> 25%	231-915-5	NE

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

# 3. HAZARDS IDENTIFICATION

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# MSDS Ref. No.: 4102.01.08 XU/W50

# 3. HAZARDS IDENTIFICATION

#### Classification

The product is classified and labelled in accordance with Directive 1999/45/EC

#### Most important hazards

None

# 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.

**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:

Product smoulders! In case of fire, cool with water or waterspray. Thermal decomposition can lead to release of irritating gases and vapours.

# Special protective equipment for firefighters:

In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary. Evacuate area and fight fire from a safe distance.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions:

Avoid dust formation. Ensure adequate ventilation.

#### **Environmental precautions:**

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

#### Methods for cleaning up:

Shovel or sweep up. Use up product completely. Packaging material is industrial waste.

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Sierraform K-Step 6+0+27+2MgO+Te

# 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

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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.

Sand

 Austria - MAKs
 4 mg/m³ MAK

 Belgium - 8 Hr VLE
 0.1 mg/m³ VLE

Finland - Occupational Exposure Limits - 8 hour 0.2 mg/m³ TWA France INRS (VME) 0.1 mg/m³ VME

Netherlands - OEL - MACs: 0.075 mg/m³ MAC

Norway - 8 h: 0.1 mg/m³ TWA
0.3 mg/m³ TWA

Portugal - TWAs 0.05 mg/m³ TWA
Spain - Valores Limite Ambientales - VLE 0.1 mg/m³ VLA-ED

Spain - Valores Limite Ambientales - VLE 0.1 mg/m³ VLA-ED
Sweden - OEL - 8 Hour 0.1 mg/m³ LLV

UK EH40 WEL:

LTEL (8 Hr) 6 mg/m³ (total inhalable dust)

STEL (15 min) 2.4 mg/m³ (total respirable dust)

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Ironsulphate, FeSO4+1H2O

Belgium - 8 Hr VLE 1 mg/m³
Czech Republic OEL Listed
Finland - Occupational Exposure Limits - 8 hour 1 mg/m³
Netherlands - OEL - MACs: 1 mg/m³
Norway - 8 h: 0.01 mg/m³
Portugal - TWAs 1 mg/m³ TM

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

**UK EH40 WEL:**LTEL (8 hr TWA) 1 mg/m<sup>3</sup>

STEL (15 min) 2mg/m<sup>3</sup>

Talc

Austria - MAKs5 mg/m³ MAKBelgium - 8 Hr VLE2 mg/m³ VLECzech Republic OELListed

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

Germany TRGS900: 2 A mg/m³
Netherlands - OEL - MACs: 1 mg/m³ MAC
Portugal - TWAs 2 mg/m³ TWA
Spain - Valores Limite Ambientales - VLE 2 mg/m³ VLA-ED
Sweden - OEL - 8 Hour 1 mg/m³ LLV

2 mg/m³ LLV **UK EH40 WEL:** 1 mg/m³ TWA

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **General Information**

Physical State: Solid Appearance: Granular

**Color:** Dark grey, Brownish **Odor:** No information available

Important Health Safety and Environmental Information

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

Other information

**Bulk density:** 800 - 1100 kg/m<sup>3</sup>

**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: Oxidising agents.

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**Hazardous decomposition** 

No decomposition if stored normally

products:

Thermal decomposition can lead to release of irritating gases and vapours

# 11. TOXICOLOGICAL INFORMATION

#### **Component information**

Sand

LD50/oral/rat = N.A.

Ironsulphate, FeSO4+1H2O

**LD50/oral/rat** = 1389 mg/kg

Potassium sulphate, K2SO4

**LD50/oral/rat** = 6600 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**

#### **Component information**

Ironsulphate, FeSO4+1H2O

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

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

EC50/72h/algae = 22mg/l

Potassium sulphate, K2SO4

**Ecotoxicity effects** LC50/96h/rainbow trout =890 mg/l

No ecological information is known on the product nor on any of its ingredients

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# 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

# 15. REGULATORY INFORMATION

#### **Indication of danger:**

The product is classified and labelled in accordance with Directive 1999/45/EC.

# **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** 

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