



Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 07-Dec-2009***

Revision Number: 1

Revision date: 02-Dec-2009

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

Identification of the substance or preparation

MSDS Ref. No.: 5225.01.01
Product name: Sportsmaster CRF Mini 19+19+5+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: • +44 (0)208 762 8322 (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
Copper sulphate, CuSO ₄ ***	7758-98-7	< 1%	231-847-6	N;R50/53 Xi;R36/38 Xn;R22

Components	CAS-No	Weight %	EC-No.	Classification
Manganese sulphate, MnSO4	7785-87-7	1 - 5%	232-08-99	N;R51/53 Xn;R48/20/22
Sulphur, S	7704-34-9	1 - 5%	231-722-6	Xi;R38-43
Iron sulphate, FeSO4+1H2O	7720-78-7	1 - 5%	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

- 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.

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:

In case of fire, the product will smoulder even without the presence of external oxygen. In these conditions the product will show self sustaining decomposition. The best method to extinguish the fire is to cool the decomposition front with water.

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.

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*Copper sulphate, CuSO₄*Finland - Occupational Exposure Limits - 8 hour
Germany (DFG) - MAK
Sweden - OEL - 8 Hour1 mg/m³ TWA
0.1 mg/m³ MAK
0.2 mg/m³ LLV
1 mg/m³ LLV*Manganese sulphate, MnSO₄*Belgium - 8 Hr VLE
Czech Republic OEL
Finland - Occupational Exposure Limits - 8 hour
Germany TRGS900:
Germany (DFG) - MAK
Netherlands - OEL - MACs:
Norway - 8 h:0.2 mg/m³
= 1 mg/m³ TWA
0.5 mg/m³
0.5 mg/m³ TWA
0.5 mg/m³ MAK
1 mg/m³
2.5 mg/m³

Portugal - TWAs	0.2 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	0.2 mg/m ³ VLA-ED
Sweden - OEL - 8 Hour	0.1 mg/m ³ LLV
	0.2 mg/m ³ LLV
UK EH40 WEL:	5 mg/m ³

Sulphur, S

France INRS (VME)	VME (poussières) = 10 mg/m ³
-------------------	---

Iron sulphate, FeSO₄+1H₂O

Belgium - 8 Hr VLE	1 mg/m ³
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:	Granular
Color:	Brown, Orange
Odor:	No information available

Important Health Safety and Environmental Information

Decomposition temperature:	> 150°C
Flammability (solid, gas):	Non-flammable

Other information

Bulk density:	800 - 1100 kg/m ³
----------------------	------------------------------

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

Manganese sulphate, MnSO₄
LD50/oral/rat = 9 g/kg

Sulphur, S
LD50/oral/rat = > 2000 mg/kg
LD50/dermal/rat = > 2000 mg/kg
LC50/inhalation/4h/rat = > 5,4 mg/l

Iron sulphate, FeSO₄+1H₂O
LD50/oral/rat = 1389 mg/kg

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

Copper sulphate, CuSO₄
Ecotoxicity effects EC50/48h/daphnia =0.8 mg/l

Manganese sulphate, MnSO₄
Ecotoxicity effects EC50/48h/daphnia => 100 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

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 3**

R43 - May cause sensitization by skin contact.

R38 - Irritating to skin.

R22 - Harmful if swallowed. ***

R36/38 - Irritating to eyes and skin.

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. ***

Reason for revision:

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

Prepared by:

Regulatory Affairs Department.

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

End of Safety Data Sheet