

Material Safety Data Sheet

According to EC Regulation 1907/2006

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

Identification of the substance or MSDS Ref. No.: Product name: Synonyms:	<u>or preparation</u> 4121.01.08 Sierraform® GT 18+6+18+2MgO+TE All Season	
Use of the Substance/Preparation Recommended use:	n Granulated fertilizer	
Company/Undertaking Identification	 Everris International BV 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) 	
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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
Iron sulphate, FeSO4+1H2O	7720-78-7	1 - 5%	231-753-5	Xn;R22 R36/38
Talc	14807-96-6	1 - 5%	NE	NE

Components	CAS-No	Weight %	EC-No.	Classification
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.

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:

Safe handling advice:

<u>Storage:</u> Technical measures/storage conditions: No special technical protective measures required.

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

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: Specific use(s): Not applicable Granulated fertilizer.

Ensure adequate ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	Engineering	measures	to	reduce	exposure:
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Occupational exposure controls

Personal protective equipment

Respiratory protection:

Hand protection:

Eye/face protection

Skin and body protection:

Hygiene measures

Exposure limit values

Magnesite, Mg(CO3)2 Belgium - 8 Hr VLE France INRS (VME) Spain - Valores Limite Ambientales - VLE UK EH40 WEL:

Copper sulphate, CuSO4 Finland - Occupational Exposure Limits - 8 hour Germany (DFG) - MAK Sweden - OEL - 8 Hour

Iron sulphate, FeSO4+1H2O Belgium - 8 Hr VLE Finland - Occupational Exposure Limits - 8 hour Netherlands - OEL - MACs: Norway - 8 h: Portugal - TWAs Not applicable.

PVC or other plastic material gloves.

Safety glasses.

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

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

10 mg/m³ TWA 10 mg/m³ VME 10 mg/m³ VLA-ED LTEL (8hr TWA) 10mg/m³

1 mg/m³ TWA 0.1 mg/m³ MAK 0.2 mg/m³ LLV 1 mg/m³ LLV

1 mg/m³ 1 mg/m³ 1 mg/m³ 0.01 mg/m³ 1 mg/m³ TWA 1 mg/m³ VLA-ED

Spain - Valores Limite Ambientales - VLE UK EH40 WEL:

Talc

Belgium - 8 Hr VLE Czech Republic OEL

Finland - Occupational Exposure Limits - 8 hour

Germany TRGS900: Netherlands - OEL - MACs: Portugal - TWAs Spain - Valores Limite Ambientales - VLE Sweden - OEL - 8 Hour

UK EH40 WEL:

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: Portugal - TWAs Spain - Valores Limite Ambientales - VLE Sweden - OEL - 8 Hour

UK EH40 WEL:

Sodium molybdate, Na2MoO4+2H2O

Belgium - 8 Hr VLE Czech Republic OEL Finland - Occupational Exposure Limits - 8 hour France - Valeurs Limites d'exposition (VLE) France INRS (VME) Norway - 8 h: Portugal - TWAs Spain - Valores Limite Ambientales - VLE Sweden - OEL - 8 Hour

LTEL (8 hr TWA) 1 mg/m³ STEL (15 min) 2mg/m³ 2 mg/m³ TWA $= 10 \text{ mg/m}^3 \text{ TWA}$ = 2.0 mg/m³ TWA 0.5 fibers/cm3 TWA 5 mg/m³ TWA 2 A mg/m³ 0.25 mg/m³ TWA 2 mg/m³ TWA 2 mg/m³ VLA-ED 1 mg/m³ LLV 2 mg/m³ LLV 1 mg/m³ TWA 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 0.2 mg/m³ TWA 0.2 mg/m³ VLA-ED 0.1 mg/m³ LLV 0.2 mg/m³ LLV 5 mg/m³ 5 mg/m³ TWA 5 mg/m³ TWA 6 mg/m³

5 mg/m³ TWA 6 mg/m³ 5 mg/m³ VME 5 mg/m³ VME 5 mg/m³ TWA 0.5 mg/m³ TWA 5 mg/m³ VLA-ED 10 mg/m³ LLV 5 mg/m³ LLV

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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			
<u>Local effects</u> 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

Iron sulphate, FeSO4+1H2O **Ecotoxicity effects**

EC50/48h/daphnia =0.8 mg/l

EC50/48h/daphnia = >100mg/l LC50/96h/rainbow trout = >72.5mg/l (6d) EC50/72h/algae = 22mg/l

Manganese sulphate, MnSO4 Ecotoxicity effects

Sodium molybdate, Na2MoO4+2H2O Ecotoxicity effects EC50/48h/daphnia => 100 mg/l

LC50/96h/rainbow trout => 2800 mg/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.

15. REGULATORY INFORMATION

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