Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 11-Jun-2012 Revision Number: 1 Revision date: 11-Jun-2012

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

Identification of the substance or preparation
MSDS Ref. No.:
4192.01.25

Product name: Sierrablen Plus 19-5-18+2MgO+TE

Use of the Substance/Preparation

MSDS Ref. No.: 4192.01.25

Recommended use: Granulated fertilizer.

<u>Company/Undertaking</u> • Everris International BV

<u>Identification</u> 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@EVERRIS.com

2. HAZARDS IDENTIFICATION

Classification

Indication of danger:

This product does not have to be classified according to the EU regulations (1999/45/EC)

Most important hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Ingredients	CAS-No	Weight %	EC-No.	Classification

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Sulphur, S	7704-34-9	5 - 10%	231-722-6	Xi;R38
Calcium sulphate dihydrate, CaSO4+2H2O	10101-41-4	1 - 5%	231-900-3	NE
Magnesium oxide, MgO	1309-48-4	1 - 5%	215-171-9	NE
Biuret	108-19-0	1 - 5%	203-559-0	Xi;R36/37/38
Iron Oxide, Fe2O3	1309-37-1	< 1%	215-168-2	NE
Manganese sulphate, MnSO4	7785-87-7	< 1%	232-08-99	N;R51/53 Xn;R48/20/22

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.

Notes to physician: Artificial respiration and/or oxygen may be necessary

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO2, water spray or "alcohol" foam.

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.

Hazchem code:

None

6. ACCIDENTAL RELEASE MEASURES

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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: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

Sulphur, S

Australia TWA N.A.

France INRS (VME) VME (poussières) = 10 mg/m³

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Calcium sulphate dihydrate, CaSO4+2H2O

 ACGIH:
 10 mg/m³ TWA

 OSHA:
 15 mg/m³ TWA total

 5 mg/m³ TWA
 5 mg/m³ TWA

Australia TWA

Australia TWA

Belgium - 8 Hr VLE

10 mg/m³ TWA

France INRS (VME)

10 mg/m³ VME

Germany TRGS900:

6 mg/m³ TWA

1.5 mg/m³ MAK

4 mg/m³ MAK

UK EH40 WEL:

10 mg/m³ TWA
4 mg/m³ TWA

Magnesium oxide, MgO

ACGIH: 10 mg/m³ TWA OSHA: 15 mg/m³ TWA total Australia TWA 10 mg/m³ TWA Austria - MAKs 6 mg/m³ Belgium - 8 Hr VLE 10 mg/m³ Czech Republic OEL 5 mg/m³ TWA France - Valeurs Limites d'exposition (VLE) 10 mg/m³ 10 mg/m³ VME France INRS (VME) Germany (DFG) - MAK 6 mg/m³ Netherlands - OEL - MACs: 10 mg/m³ Norway - 8 h: 10 mg/m³

Norway - 8 h: 10 mg/m³
Portugal - TWAs 10 mg/m³ TWA
Spain - Valores Limite Ambientales - VLE 10 mg/m³ VLA-ED

UK EH40 WEL: 10 mg/m³

Iron Oxide, Fe2O3

ACGIH: 5 mg/m³ TWA 10 mg/m³ TWA OSHA: Australia TWA 5 mg/m³ TWA Belgium - 8 Hr VLE 5 mg/m³ TWA Czech Republic OEL $= 10.0 \text{ mg/m}^3 \text{ TWA}$ Finland - Occupational Exposure Limits - 8 hour 5 mg/m³ TWA France INRS (VME) 5 mg/m³ VME Germany (DFG) - MAK 1.5 mg/m³ MAK Norway - 8 h: 3 mg/m³ TWA Portugal - TWAs 5 mg/m³ TWA

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

 Sweden - OEL - 8 Hour
 3.5 mg/m³ LLV

 UK EH40 WEL:
 1 mg/m³ TWA

 5 mg/m³ TWA
 5 mg/m³ TWA

Manganese sulphate, MnSO4

ACGIH: 0.2 mg/m³ TWA 1 mg/m³ TWA Australia TWA Belaium - 8 Hr VLE 0.2 mg/m³ Czech Republic OEL $= 1 \text{ mg/m}^3 \text{ TWA}$ 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/m^3 2.5 mg/m³ Norway - 8 h: 0.2 mg/m³ TWA Portugal - TWAs Spain - Valores Limite Ambientales - VLE 0.2 mg/m3 VLA-ED

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0.1 mg/m³ LLV 0.2 mg/m³ LLV 5 mg/m³

UK EH40 WEL:

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Sweden - OEL - 8 Hour

Physical State: Solid Granular Appearance: Color: Brownish

Odor: No information available

Important Health Safety and Environmental Information

Boiling point/range: Not applicable Melting point/range: Not applicable

Decomposition temperature: > 150°C

Solubility: Coating not soluble, release nutrients through coating

Vapour pressure Not applicable Vapour density Not applicable

Explosive properties: Doesn't present explosion hazard

Flammability (solid, gas): Non-flammable

Other information

pH: No information available

800 - 1100 kg/m³ **Bulk density:**

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.

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

Hazardous decomposition

products

No decomposition if stored normally. Thermal decomposition can lead to release of

irritating gases and vapours.

Hazardous reactions None reasonably foreseeable

11. TOXICOLOGICAL INFORMATION

Component information

Sulphur, S

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

Biuret

LD50/oral/rat = > 5 g/kg

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Sierrablen Plus 19-5-18+2MgO+TE

Manganese sulphate, MnSO4

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LD50/oral/rat = 9 g/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

Aquatic toxicity: No ecological information is known on the product

EcotoxicityNo ecological information is known on the product

Persistence and degradability

No persistent or cumulative effects were observed

Bioaccumulative potential Does not bioaccumulate

Mobility in soil No information available

Component information

Sulphur, S

Ecotoxicity effects No information available

Calcium sulphate dihydrate, CaSO4+2H2O

Ecotoxicity effects No information available

Biuret

Ecotoxicity effectsNo information available

Manganese sulphate, MnSO4

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

13. DISPOSAL CONSIDERATIONS

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

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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:

This product does not have to be classified according to the EU regulations (1999/45/EC)

In accordance with local and national regulations

ICPE (FR): Classified installation : article NE

GefStoffV (DE): Not applicable

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R38 - Irritating to skin.

R36/37/38 - Irritating to eyes, respiratory system and skin.

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

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

Reason for revision: *** Indicates changes since the last revision. This version replaces all previous

versions

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Prepared by: Regulatory Affairs Department.

End of Safety Data Sheet

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