



Material Safety Data Sheet

According to EC Regulation 1907/2006

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Revision Number: 1

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

Identification of the substance or preparation

MSDS Ref. No.: 4197.01.25
 Product name: Sierrablen Plus 18-5-18+2MgO

Use of the Substance/Preparation

Recommended use: 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)

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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Ammonium nitrate, NH ₄ NO ₃	6484-52-2	10 - 25%	229-347-8	O;R08
Sulphur, S	7704-34-9	1 - 5%	231-722-6	Xi;R38
Magnesium oxide, MgO	1309-48-4	1 - 5%	215-171-9	NE
Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O	10101-41-4	1 - 5%	231-900-3	NE
Iron sulphate, FeSO ₄ +1H ₂ O	7720-78-7	< 1%	231-753-5	Xn;R22 R36/38
Manganese sulphate, MnSO ₄	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 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.
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, CO ₂ , 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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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

Ammonium nitrate, NH₄NO₃

ACGIH:

N.A.

OSHA:

N.A.

Australia TWA
Czech Republic OEL

N.A.
= 10.0 mg/m³ TWA

Sulphur, S

Australia TWA
France INRS (VME)

N.A.
VME (poussières) = 10 mg/m³

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
France INRS (VME) 10 mg/m³ VME
Germany (DFG) - MAK 6 mg/m³
Netherlands - OEL - MACs: 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

Calcium sulphate dihydrate, CaSO₄+2H₂O

ACGIH: 10 mg/m³ TWA
OSHA: 15 mg/m³ TWA total
5 mg/m³ TWA
Australia TWA 10 mg/m³ TWA
Belgium - 8 Hr VLE 10 mg/m³ TWA
France INRS (VME) 10 mg/m³ VME
Germany TRGS900: 6 mg/m³ TWA
Germany (DFG) - MAK 1.5 mg/m³ MAK
4 mg/m³ MAK
Portugal - TWAs 10 mg/m³ TWA
Spain - Valores Limite Ambientales - VLE 10 mg/m³ VLA-ED
UK EH40 WEL: 10 mg/m³ TWA
4 mg/m³ TWA

Iron sulphate, FeSO₄+1H₂O

ACGIH: 1 mg/m³ TWA
Australia TWA 1 mg/m³ TWA
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 - TWAs 1 mg/m³ TWA
Spain - Valores Limite Ambientales - VLE 1 mg/m³ VLA-ED
UK EH40 WEL: LTEL (8 hr TWA) 1 mg/m³
STEL (15 min) 2mg/m³

Manganese sulphate, MnSO₄

ACGIH: 0.2 mg/m³ TWA
Australia TWA 1 mg/m³ TWA
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/m ³
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

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Solid
Appearance:	Granular
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
Bulk density:	800 - 1100 kg/m ³

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

<i>Ammonium nitrate, NH₄NO₃</i>	
LD50/oral/rat =	2410 mg/kg
<i>Sulphur, S</i>	
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

Manganese sulphate, MnSO₄

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

Ecotoxicity No 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

Ammonium nitrate, NH₄NO₃

Ecotoxicity effects
 EC50/48h/daphnia = 100 mg/l
 LC50/96h/rainbow trout = 100 mg/l
 EC50/72h/algae = 74000 µg/l

Sulphur, S

Ecotoxicity effects No information available

Calcium sulphate dihydrate, CaSO₄+2H₂O

Ecotoxicity effects No information available

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

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 (1999/45/EC)

In accordance with local and national regulations**ICPE (FR):**

Classified installation : article 1331

GefStoffV (DE):

C III

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R 8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed.

R38 - Irritating to skin.

16. OTHER INFORMATION

R36/38 - Irritating to eyes 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