



# 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 preparation

MSDS Ref. No.: 8722.01.25  
 Product name: Sierrablen 28-5-5+Fe

### 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 <sub>4</sub> NO <sub>3</sub>	6484-52-2	10 - 25%	229-347-8	O;R08
Sulphur, S	7704-34-9	5 - 10%	231-722-6	Xi;R38
Iron sulphate, FeSO <sub>4</sub> +1H <sub>2</sub> O	7720-78-7	1 - 5%	231-753-5	Xn;R22 R36/38
Magnesium oxide, MgO	1309-48-4	< 1%	215-171-9	NE

NE = Non-Established

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

## 4. FIRST AID MEASURES

<b>General advice:</b>	If you feel unwell, seek medical advice (show the label where possible).
<b>Ingestion:</b>	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.
<b>Inhalation:</b>	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.
<b>Skin contact:</b>	If a person feels unwell or symptoms of skin irritation appear, consult a physician.
<b>Eye contact:</b>	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
<b>Notes to physician:</b>	Artificial respiration and/or oxygen may be necessary

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Coordinate fire extinguishing measures to fire in surrounding area
<b>Unsuitable extinguishing media:</b>	Not applicable
<b>Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:</b>	Thermal decomposition can lead to release of irritating gases and vapours.
<b>Special protective equipment for firefighters:</b>	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

<b>Personal precautions:</b>	Avoid dust formation. Ensure adequate ventilation.
<b>Environmental precautions:</b>	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***Ammonium nitrate, NH<sub>4</sub>NO<sub>3</sub>*

ACGIH:

N.A.

OSHA:

N.A.

Australia TWA

N.A.

Czech Republic OEL

= 10.0 mg/m<sup>3</sup> TWA

*Sulphur, S*

Australia TWA

N.A.

France INRS (VME)

VME (poussières) = 10 mg/m<sup>3</sup>

*Iron sulphate, FeSO<sub>4</sub>+1H<sub>2</sub>O*

ACGIH:

1 mg/m<sup>3</sup> TWA

Australia TWA

1 mg/m<sup>3</sup> TWA

Belgium - 8 Hr VLE	1 mg/m <sup>3</sup>
Finland - Occupational Exposure Limits - 8 hour	1 mg/m <sup>3</sup>
Netherlands - OEL - MACs:	1 mg/m <sup>3</sup>
Norway - 8 h:	0.01 mg/m <sup>3</sup>
Portugal - TWAs	1 mg/m <sup>3</sup> TWA
Spain - Valores Limite Ambientales - VLE	1 mg/m <sup>3</sup> VLA-ED
UK EH40 WEL:	LTEL (8 hr TWA) 1 mg/m <sup>3</sup> STEL (15 min) 2mg/m <sup>3</sup>

*Magnesium oxide, MgO*

ACGIH:	10 mg/m <sup>3</sup> TWA
OSHA:	15 mg/m <sup>3</sup> TWA total
Australia TWA	10 mg/m <sup>3</sup> TWA
Austria - MAKs	6 mg/m <sup>3</sup>
Belgium - 8 Hr VLE	10 mg/m <sup>3</sup>
Czech Republic OEL	5 mg/m <sup>3</sup> TWA
France - Valeurs Limites d'exposition (VLE)	10 mg/m <sup>3</sup>
France INRS (VME)	10 mg/m <sup>3</sup> VME
Germany (DFG) - MAK	6 mg/m <sup>3</sup>
Netherlands - OEL - MACs:	10 mg/m <sup>3</sup>
Norway - 8 h:	10 mg/m <sup>3</sup>
Portugal - TWAs	10 mg/m <sup>3</sup> TWA
Spain - Valores Limite Ambientales - VLE	10 mg/m <sup>3</sup> VLA-ED
UK EH40 WEL:	10 mg/m <sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**General Information**

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Granular
<b>Color:</b>	Orange, Grey, Brown
<b>Odor:</b>	No information available

**Important Health Safety and Environmental Information**

<b>Boiling point/range:</b>	Not applicable
<b>Melting point/range:</b>	Not applicable
<b>Decomposition temperature:</b>	> 150°C
<b>Solubility:</b>	Coating not soluble, release nutrients through coating
<b>Vapour pressure</b>	Not applicable
<b>Vapour density</b>	Not applicable
<b>Explosive properties:</b>	Doesn't present explosion hazard
<b>Flammability (solid, gas):</b>	Non-flammable

**Other information**

<b>pH:</b>	No information available
<b>Bulk density:</b>	800 - 1100 kg/m <sup>3</sup>

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.

<b>Hazardous decomposition products</b>	No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours.
<b>Hazardous reactions</b>	None reasonably foreseeable

## 11. TOXICOLOGICAL INFORMATION

### Component information

*Ammonium nitrate, NH<sub>4</sub>NO<sub>3</sub>*

**LD50/oral/rat =** 2410 mg/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, FeSO<sub>4</sub>+1H<sub>2</sub>O*

**LD50/oral/rat =** 1389 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

#### **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, NH<sub>4</sub>NO<sub>3</sub>*

**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

*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 (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**

## 16. OTHER INFORMATION

R 8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed.

R38 - Irritating to skin.

R36/38 - Irritating to eyes and skin.

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

**Revision date:** 12-Jun-2012

**Prepared by:** Regulatory Affairs Department.

**End of Safety Data Sheet**