



Material Safety Data Sheet

According to EC Regulation 1907/2006

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Revision Number: 2***

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

Identification of the substance or preparation

MSDS Ref. No.: 9102.01.08
Product name: Sierrablen 15+0+22

Use of the Substance/Preparation

Recommended use: Granulated fertilizer.

Company/Undertaking Identification

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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
Ammonium nitrate, NH ₄ NO ₃	6484-52-2	> 25%	229-347-8	O;R08
Iron sulphate, FeSO ₄ +1H ₂ O	7720-78-7	1 - 5%	231-753-5	Xn;R22
Sulphur, S	7704-34-9	1 - 5%	NE	Xi;R36/37/38 ***

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:

Thermal decomposition can lead to release of irritating gases and vapours.

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*Ammonium nitrate, NH₄NO₃***Czech Republic OEL**= 10.0 mg/m³ TWA****Iron sulphate, FeSO₄+1H₂O*

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/m³STEL (15 min) 2mg/m³*Sulphur, S*

France INRS (VME)

VME (poussières) = 10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information**Physical State:**

Solid***

Appearance:

Granular

Color: Brown, Pink, Greenish
Odor: No information available

Important Health Safety and Environmental Information

Decomposition temperature: > 150°C
Solubility: Coating not soluble, release nutrients through coating
Flammability (solid, gas): Non-flammable

Other information

Bulk density: 800 - 1000 kg/m³

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: Oxidizing agent.
Hazardous decomposition products: No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Component information

Ammonium nitrate, NH₄NO₃

LD₅₀/oral/rat = 410 mg/kg

Iron sulphate, FeSO₄+1H₂O

LD₅₀/oral/rat = 1389 mg/kg

Sulphur, S

LD₅₀/oral/rat = > 2000 mg/kg

LD₅₀/dermal/rat = > 2000 mg/kg

LC₅₀/inhalation/4h/rat = > 5,4 mg/l

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

Water Endangering Class (WGK): 1 (Scotts classification)

Component information

Ammonium nitrate, NH₄NO₃

Ecotoxicity effects

EC50/48h/daphnia = 100 µg/l
LC50/96h/rainbow trout = 10 mg/l
EC50/72h/algae = 74000 µg/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.

15. REGULATORY INFORMATION**16. OTHER INFORMATION****Text of R Phrases mentioned in Section 3**

R 8 - Contact with combustible material may cause fire.

R11 - Highly flammable.

R22 - Harmful if swallowed.

R36/37/38 - Irritating to eyes, respiratory system 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