



Material Safety Data Sheet

According to EC Directive 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.: 6646.02.04
 Product name: Sierrablen Flora Tablet 15+9+9+3MgO
 Synonyms: Sierrablen 15+9+9+3MgO

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
Iron sulphate, FeSO ₄ +1H ₂ O	7720-78-7	< 1%	231-753-5	Xn;R22
Magnesium oxide, MgO	1309-48-4	1 - 5%	215-171-9	NE
Potassium nitrate, KNO ₃	7757-79-1	10 - 25%	231-818-8	O;R08

Components	CAS-No	Weight %	EC-No.	Classification
Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O	10101-41-4	1 - 5%	231-900-3	NE
Ammonium nitrate, NH ₄ NO ₃	6484-52-2	10 - 25%	229-347-8	O;R08

NE = Non-Established

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

4. FIRST AID MEASURES

- General advice:** Possible symptoms are coughing and/or dyspnoea. If symptoms persist, call a physician.
- Ingestion:** If conscious, drink plenty of water. Do not induce vomiting. Rinse mouth. Consult a physician if necessary.
- Inhalation:** Dusty conditions are unlikely if product is used as intended. However, if prolonged inhalation of dust occurs, remove victim 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. Rinse with plenty of water.
- Eye contact:** Flush eyes with water as a precaution. 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:

Danger of toxic gases in smoke in case of fire.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid dust formation. Sweep-up to prevent slipping hazard.

Environmental precautions:

Do not flush into surface water or sanitary sewer system. Keep away from living quarters.

Methods for cleaning up:

Avoid dust formation. Shovel or sweep up. Use up product completely. Packaging material is industrial waste.

7. HANDLING AND STORAGE

Handling:**Technical measures/precautions:**

Avoid dust formation.

Safe handling advice:

Keep away from flammable material. When using do not eat or drink.

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:

Oxidising and spontaneously flammable products

Specific use(s):

Granulated fertilizer.

Packaging material:

Bags or Bulk

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:

Not applicable.

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*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

UK EH40 WEL:

LTEL (8 hr TWA) 1 mg/m³STEL (15 min) 2mg/m³*Magnesium oxide, MgO*

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/m ³
Norway - 8 h:	10 mg/m ³
Portugal - TWAs	10 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	10 mg/m ³ VLA-ED
UK EH40 WEL:	10 mg/m ³

Calcium sulphate dihydrate, CaSO₄+2H₂O

France INRS (VME)	10 mg/m ³ VME
Germany (DFG) - MAK	1.5 mg/m ³ MAK
	4 mg/m ³ MAK
Netherlands - OEL - MACs:	0.5 mg/m ³ MAC
Portugal - TWAs	10 mg/m ³ TWA
UK EH40 WEL:	10 mg/m ³ TWA
	4 mg/m ³ TWA

Ammonium nitrate, NH₄NO₃

Czech Republic OEL	= 10.0 mg/m ³ TWA
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9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Solid
Appearance:	Tablet out of resin coated prills
Color:	Brown, Greenish
Odor:	No information available

Important Health Safety and Environmental Information

Decomposition temperature:	> 150°C
Solubility:	Coating not soluble, release nutrients through coating
Explosive properties:	Doesn't present explosion hazard
Flammability (solid, gas):	Non-flammable

Other information

Oxidising properties:	Incompatible with oxidising agents.
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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:	Strong oxidising agents.
Hazardous decomposition products:	No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Component information

*Iron sulphate, FeSO4+1H2O***LD50/oral/rat =** 1389 mg/kg*Potassium nitrate, KNO3***LD50/oral/rat =** 3750mg/kg*Ammonium nitrate, NH4NO3***LD50/oral/rat =** 410 mg/kg**Product information****LD50/oral/rat =** > 10 gr/kg**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.

Component information*Iron sulphate, FeSO4+1H2O***Ecotoxicity effects**EC50/48h/daphnia = >100mg/l
LC50/96h/rainbow trout = >72.5mg/l (6d)
EC50/72h/algae = 22mg/l*Ammonium nitrate, NH4NO3***Ecotoxicity effects**EC50/48h/daphnia =100 µg/l
LC50/96h/rainbow trout =10 µg/l
EC50/72h/algae = 74000 µg/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:** N.A.**IMO / IMDG****UN-No:** Not classified for transport*(Bad file name or number)***15. REGULATORY INFORMATION****Indication of danger:**

This product does not have to be classified according to the EU regulations.

ICPE (FR): Classified installation : article 55**16. OTHER INFORMATION****Text of R Phrases mentioned in Section 3**

R 8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed.

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