

MATERIAL SAFETY DATA SHEET

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 453/2010

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1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the substance or preparation

MSDS Ref. No.: 4194.01.25
Product Name: Sierrablen Plus 15-0-28+2MgO

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use

Fertilizer. Restricted to professional users.

Uses advised against

Consumer use.

Company/undertaking identification

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2. Hazards Identification

Classification

Indication of danger:

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

3. Composition/information on Ingredients

Chemical nature of the preparation

Ingredients	CAS-No	Weight %	EC-No.	Classification	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Sulphur, S	7704-34-9	1 - 5%	231-722-6	Xi;R38	Skin Irrit. 2 (H315)	no data available
Magnesium oxide, MgO	1309-48-4	1 - 5%	215-171-9	NE	no data available	Exempt

Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O	10101-41-4	1 - 5%	231-900-3	NE	no data available	01-2119444918-26
Iron sulphate, FeSO ₄ +1H ₂ O	7720-78-7	0.1 - 1%	231-753-5	Xn; R22 Xi; R36/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119513203-57
Manganese sulphate, MnSO ₄ +1H ₂ O	7785-87-7	< 0.1%	232-08-99	N;R51/53 Xn;R48/20/22	STOT RE 2 (H373) Aquatic Chronic 2 (H411)	01-2119456624-35

NE = Non-Established.

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

Full text of H- and EUH-phrases: see section 16

4. First aid measures

4.1. Description of 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.

Protection of first-aiders: Low hazard for usual industrial or commercial handling.

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

4.2. Most important symptoms and effects, both acute and delayed

None under normal processing

4.3. Indication of any immediate medical attention and special treatment needed

None under normal processing

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:

High volume water jet.

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. Danger of toxic gases in smoke in case of fire.***

Special protective equipment for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

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):

Fertilizer.

8. Exposure Controls/Personal Protection

Engineering measures to reduce exposure:

Ensure adequate ventilation.

Occupational exposure controls**Personal Protective Equipment****Respiratory Protection:**

No personal respiratory protective equipment normally required.

Hand protection:

PVC or other plastic material gloves.

Eye/face Protection

Tightly fitting safety goggles.

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

France INRS (VME)	VME (poussières) = 10 mg/m ³
<u>Magnesium oxide, MgO</u>	
ACGIH:	10 mg/m ³ TWA
OSHA:	15 mg/m ³ TWA
Australia TWA	10 mg/m ³ TWA fume
Austria - MAKs	6 mg/m ³
Belgium - 8 Hr TWA	10 mg/m ³
Czech Republic OEL	5 mg/m ³ TWA
France - Valeurs Limites d'exposition (VLE)	10 mg/m ³
France INRS (VME)	10 mg/m ³ TWA
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 TWA
UK EH40 WEL:	10 mg/m ³
<u>Calcium sulphate dihydrate, CaSO₄+2H₂O</u>	
ACGIH:	10 mg/m ³ TWA
Portugal - TWAs	10 mg/m ³ TWA
UK EH40 WEL:	10 mg/m ³ TWA (Inhalable) 4 mg/m ³ TWA (Respirable)
<u>Iron sulphate, FeSO₄+1H₂O</u>	
Belgium - 8 Hr TWA	1 mg/m ³
Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³
Netherlands - OEL - MACs:	1 mg/m ³
Norway - 8 h:	0.01 mg/m ³
UK EH40 WEL:	LTEL (8 hr TWA) 1 mg/m ³ STEL (15 min) 2mg/m ³
<u>Manganese sulphate, MnSO₄+1H₂O</u>	
Belgium - 8 Hr TWA	0.2 mg/m ³
Finland - Occupational Exposure Limits - 8 hour	0.5 mg/m ³
Netherlands - OEL - MACs:	1 mg/m ³
Norway - 8 h:	2.5 mg/m ³
Sweden - OEL - 8 Hour	0.2 mg/m ³ LLV (totalt)
UK EH40 WEL:	5 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Physical state	Solid
Appearance:	granulate
Color:	orange, light grey
Odor:	Not significant

Important Health Safety and Environmental Information

Melting point/range:	No information available
Solubility:	Coating not soluble, release nutrients through coating
Vapour pressure	No information available
Vapour density	No information available
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
Viscosity	not applicable

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.
Incompatible Materials	Strong oxidizing agents. Acids and bases. Strong reducing agents. Flammable materials.
Hazardous Decomposition Products	No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours. Burning produces obnoxious and toxic fumes.***
Hazardous reactions	The product itself does not burn.

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

Calcium sulphate dihydrate, CaSO₄+2H₂O

LD50/oral/rat = N.E.

Iron sulphate, FeSO₄+1H₂O

LD50/oral/rat = 1389 mg/kg

Manganese sulphate, MnSO₄+1H₂O

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.

Component	Exclude this non-hazardous chemical from toxicity and ecotoxicity calculations for LD/LC/EC50
Magnesium oxide, MgO 1309-48-4 (1 - 5%)	1
Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O 10101-41-4 (1 - 5%)	1

12. Ecological Information

Product Information

Aquatic toxicity: 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

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

Component Information

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

Manganese sulphate, MnSO₄+1H₂O

Ecotoxicity effects

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

13. Disposal Considerations

Waste Disposal Methods: Dispose of in accordance with local regulations.***

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):

Not Applicable

Water Endangering Class (WGK):

1 (Everris classification)

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R22 - Harmful if swallowed

R38 - Irritating to skin

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

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H411 - Toxic to aquatic life with long lasting effects

H315 - Causes skin irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H319 - Causes serious eye irritation

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

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End of Safety Data Sheet