



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.: 4137.01.25
Product name: Proturf 12-5-20+2CaO+2MgO

Use of the Substance/Preparation

Recommended use: Fertilizer.

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)

R -phrase(s)

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Ingredients	CAS-No	Weight %	EC-No.	Classification
Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O	10101-41-4	10 - 25%	231-900-3	NE
Sulphur, S	7704-34-9	1 - 5%	231-722-6	Xi;R38

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.
Unsuitable extinguishing media:	No information available
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):

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*Calcium sulphate dihydrate, CaSO₄+2H₂O*

ACGIH:

10 mg/m³ TWA

OSHA:

15 mg/m³ TWA total5 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 MAK4 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 TWA4 mg/m³ TWA*Sulphur, S*

Australia TWA

N.A.

France INRS (VME)

VME (poussières) = 10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Solid
Appearance:	Granular
Color:	Orange, White, Grey, Red
Odor:	Nearly odourless

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:	1000 - 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

Calcium sulphate dihydrate, CaSO₄+2H₂O

LD50/oral/rat = N.E.

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****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*Calcium sulphate dihydrate, CaSO₄+2H₂O***Ecotoxicity effects**

No information available

*Sulphur, S***Ecotoxicity effects**

No information available

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

14. TRANSPORT INFORMATION

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

GefStoffV (DE): Not applicable

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R38 - Irritating to skin.

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

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Prepared by: Regulatory Affairs Department.

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End of Safety Data Sheet