



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.: 4198.01.02
Product name: Landscaper Pro All round 24+5+8+2MgO

Use of the Substance/Preparation

Recommended use: Granulated fertilizer.

Company/Undertaking Identification

- Scotts International BV
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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
Sulphur, S	7704-34-9	1 - 5%	231-722-6	Xi;R38-43
Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O	10101-41-4	< 1%	231-900-3	NE
Iron sulphate, FeSO ₄ +1H ₂ O	7720-78-7	< 1%	231-753-5	Xn;R22

Components	CAS-No	Weight %	EC-No.	Classification
Magnesium oxide, MgO	1309-48-4	1 - 5%	215-171-9	NE
Manganese sulphate, MnSO4	7785-87-7	< 1%	232-08-99	N;R51/53 Xn;R48/20/22
Ammonium nitrate, NH4NO3	6484-52-2	> 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:** 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:**
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):

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*Sulphur, S*

France INRS (VME)

VME (poussières) = 10 mg/m³

Calcium sulphate dihydrate, CaSO₄+2H₂O

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 MAK

4 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 TWA
4 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/m³
STEL (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/m³
Norway - 8 h: 10 mg/m³
Portugal - TWAs 10 mg/m³ TWA
Spain - Valores Limite Ambientales - VLE 10 mg/m³ VLA-ED
UK EH40 WEL: 10 mg/m³

Manganese sulphate, MnSO₄

Belgium - 8 Hr VLE 0.2 mg/m³
Czech Republic OEL = 1 mg/m³ TWA
Finland - Occupational Exposure Limits - 8 hour 0.5 mg/m³
Germany TRGS900: 0.5 mg/m³ TWA
Germany (DFG) - MAK 0.5 mg/m³ MAK
Netherlands - OEL - MACs: 1 mg/m³
Norway - 8 h: 2.5 mg/m³
Portugal - TWAs 0.2 mg/m³ TWA
Spain - Valores Limite Ambientales - VLE 0.2 mg/m³ VLA-ED
Sweden - OEL - 8 Hour 0.1 mg/m³ LLV
0.2 mg/m³ LLV
UK EH40 WEL: 5 mg/m³

Ammonium nitrate, NH₄NO₃

Czech Republic OEL = 10.0 mg/m³ TWA

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 - 1100 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: Combustible material.
Hazardous decomposition products: No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours.

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

Iron sulphate, FeSO₄+1H₂O

LD50/oral/rat = 1389 mg/kg

Manganese sulphate, MnSO₄

LD50/oral/rat = 9 g/kg

Ammonium nitrate, NH₄NO₃

LD50/oral/rat = 410 mg/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.

12. ECOLOGICAL INFORMATION**Product information**

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

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

Manganese sulphate, MnSO₄

Ecotoxicity effects

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

Ammonium nitrate, NH₄NO₃

Ecotoxicity effects

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

No ecological information is known on the product nor on any of its ingredients

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

15. REGULATORY INFORMATION**Indication of danger:**

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

ICPE (FR): Classified installation : article 1331

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

R 8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed.

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

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