



Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 21-Mar-2007***

Revision Number: 2***

Revision date: 21-Mar-2007***

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

Identification of the substance or preparation

MSDS Ref. No.: 8635.01.01
Product name: Enmag 11+22+9+6MgO
Synonyms: Agroblen 11+9.6+7.5+3.6Mg***

Use of the Substance/Preparation

Recommended use: Granulated fertilizer***

Company/Undertaking Identification

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O***	10101-41-4	1 - 5%	231-900-3 ***	NE ***
Ammoniumnitrate, NH ₄ NO ₃ ***	6484-52-2	10 - 25%	229-347-8***	O;R08 ***
Magnesiumoxide, MgO***	1309-48-4	1 - 5%	215-171-9***	NE ***
Potassium nitrate, KNO ₃ ***	7757-79-1	5 - 10%	231-818-8***	O;R08 ***

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

3. HAZARDS IDENTIFICATION

Classification

The product is non-dangerous in accordance with Directive 1999/45/EC

Most important hazards

None

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water***

Unsuitable extinguishing media:

Dry powder, Sand, Foam

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***

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*Calcium sulphate dihydrate, CaSO₄+2H₂O*

Austria - MAKs

6 mg/m³ MAK***

Belgium - 8 Hr VLE

10 mg/m³ VLE***

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***

Netherlands - OEL - MACs:

0.5 mg/m³ MAC***

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***

Ammoniumnitrate, NH₄NO₃

Czech Republic OEL

Listed***

Magnesiumoxide, MgO

Austria - MAKs

6 mg/m³

Belgium - 8 Hr VLE

10 mg/m³

Czech Republic OEL

Listed***

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

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State: Solid
Appearance: Granular***
Color: Brownish, Greenish***
Odor: No information available

Important Health Safety and Environmental Information

Flammability (solid, gas): Non-flammable***
Solubility: Coating not soluble, release nutrients through coating***

Other information

Bulk density: 800 - 1100 kg/m³
Decomposition temperature: > 150°C

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.
Conditions to avoid: No special storage conditions required.
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

Ammoniumnitrate, NH₄NO₃
LD50/oral/rat = 410 mg/kg
Potassium nitrate, KNO₃
LD50/oral/rat = 3750mg/kg***

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

Ammoniumnitrate, NH₄NO₃

Ecotoxicity effects

EC50/48h/daphnia =100 µg/l
 LC50/96h/rainbow trout =10 µg/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.

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 2

R 8 - Contact with combustible material may cause fire.

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