



Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 10-May-2007

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.: 8667.03.01
Product name: Agroblen 15+9+9+3MgO

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%	231-900-3	NE
Magnesiumoxide, MgO	1309-48-4	1 - 5%	215-171-9	NE
Potassium nitrate, KNO ₃	7757-79-1	10 - 25%	231-818-8	O;R08
Ammoniumnitrate, NH ₄ NO ₃	6484-52-2	> 25%	229-347-8	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

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.
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, CO2

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:
Burning produces obnoxious and toxic fumes. In case of fire, cool with water or waterspray. In case of fire, the product will smoulder even without the presence of external oxygen. In these conditions the product will show self sustaining decomposition. The best method to extinguish the fire is to cool the decomposition front with water.

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.

Specific methods:

In case of fire separate from centre of fire .

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

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

Environmental precautions:

Prevent product from entering drains. Do not contaminate surface water.

Methods for cleaning up:

Shovel or sweep up.

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

Calcium sulphate dihydrate, CaSO₄+2H₂O

Austria - MAKs	6 mg/m ³ MAK
Belgium - 8 Hr VLE	10 mg/m ³ TWA
France INRS (VME)	10 mg/m ³ VME
Germany TRGS900:	6 mg/m ³ TWA
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
Spain - Valores Limite Ambientales - VLE	10 mg/m ³ VLA-ED
UK EH40 WEL:	10 mg/m ³ TWA
	4 mg/m ³ TWA

Magnesiumoxide, MgO

Austria - MAKs	6 mg/m ³
Belgium - 8 Hr VLE	10 mg/m ³
Czech Republic OEL	Listed
France - Valeurs Limites d'exposition (VLE)	10 mg/m ³
France INRS (VME)	10 mg/m ³ VME
Germany (DFG) - MAK	6 mg/m ³
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

Ammoniumnitrate, NH₄NO₃
Czech Republic OEL

Listed

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Solid
Appearance:	Resin Coated Granules
Color:	Brown, Blue, Greenish
Odor:	No information available

Important Health Safety and Environmental Information

Flammability (solid, gas):	Non-flammable
Explosive properties:	Doesn't present explosion hazard
Oxidising properties:	Incompatible with oxidising agents.
Solubility:	Coating not soluble, release nutrients through coating

Other information

Bulk density:	990 - 1036 kg/m ³
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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:	Combustible material. Oxidising agents.
Hazardous decomposition products:	No decomposition if stored normally Hazardous decomposition products: Poisonous gasses/vapours

11. TOXICOLOGICAL INFORMATION

Component information

<i>Potassium nitrate, KNO₃</i>	
LD50/oral/rat =	3750mg/kg
<i>Ammoniumnitrate, NH₄NO₃</i>	
LD50/oral/rat =	410 mg/kg

Product information

LD50/oral/rat = > 10 gr/kg

Local effects

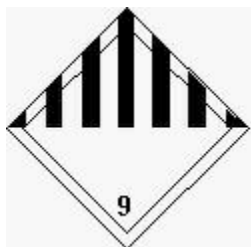
Skin effects: May cause skin irritation in susceptible persons
Eye effects: May cause eye irritation with susceptible persons
Inhalation: May cause sensitization by inhalation
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

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**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: 2071
Proper shipping name: AMMONIUM NITRATE BASED FERTILIZER
Hazard Class: 9
Packing group: III



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