

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 MSDS Ref. No.: Product name:	2098.03.02
	Agroleaf® Power 11+5+19+2.5MgO+9CaO
Use of the Substance/Preparation Recommended use:	n Water soluble fertilizer
Company/Undertaking Identification	 Everris International BV Nijverheidsweg 1-5; 6422 PD Heerlen (NL) Tel: ++31 (0) 45-5609100; Fax: ++31 (0) 45-5609190
Emergency telephone number:	 +44 1235 239 670 (24h)
Email	INFO-MSDS@EVERRIS.com

2. HAZARDS IDENTIFICATION

Classification

The product is classified and labelled in accordance with Directive 1999/45/EC O - Oxidizing

Most important hazards

Contact with combustible material may cause fire.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Boric acid, H3BO3	10043-35-3	< 1%	233-139-2	Repr.Cat.2;R60-61
Copper-EDTA	14025-15-1	< 1%	237-864-5	Xn;R22
Manganese-EDTA	15375-84-5	< 1%	239-407-5	NE
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	< 1%	231-298-2	NE

Agroleaf® Power 11+5+19+2.5MgO+9CaO

Components	CAS-No	Weight %	EC-No.	Classification
Calcium nitrate, Ca(NO3)2	13477-34-4	> 25%	233-332-1	O;R08 Xi;R36
Magnesium nitrate hexahydrate, Mg(NO3)2+6H2O	13446-18-9	10 - 25%	233-826-7	O;R08
Potassium nitrate, KNO3	7757-79-1	> 25%	231-818-8	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:	Check the casualty's state of consciousness, breathing and pulse; put in emergency position or revive.	
Ingestion:	Possible symptoms are nausea and/or vommiting. Clean mouth with water and drink afterwards plenty of water. If a person vomits when lying on his back, place him in the recovery position. Do not induce vomiting without medical advice. Consult a physician if necessary.	
Inhalation:	In the case of inhalation of aerosol/mist consult a physician if necessary. Possible symptoms are coughing and/or dyspnoea. If breathing is difficult, give oxygen. Move to fresh air.	
Skin contact:	If skin irritation persists, call a physician.	
Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	
Protection of first-aiders:	Avoid contact with eyes. Use personal protective equipment.	
	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:

Danger of toxic gases in smoke in case of fire.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific methods:

Dike and collect water used to fight fire.

6. ACCIDENTAL RELEASE MEASURES

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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.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:

Safe handling advice: <u>Storage:</u> Technical measures/storage conditions: Provide appropriate exhaust ventilation at places where dust is formed.

Avoid dust formation. Avoid contact with skin and eyes.

Keep containers dry and tightly closed to avoid moisture absorption and contamination. 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 $^{\circ}$ C and 40 $^{\circ}$ C.

Incompatible products:

Specific use(s): Packaging material: VCI (Germany) Keep away from: Flammable materials Water soluble fertilizer. Plastic bags 5.1B

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:	Ensure adequate ventilation.
Occupational exposure controls	
Personal protective equipment	
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection:	PVC or other plastic material gloves.
Eye/face protection	Tightly fitting safety goggles.
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	, , , , , , , , , , , , , , , , , , ,
Environmental exposure controls	Avoid dust formation.

Boric acid, H3BO3 Belgium - 8 Hr VLE	2 mg/m³ TWA
Germany TRGS900: Portugal - TWAs	0.5 mg/m³ TWA 2 mg/m³ TWA
Copper-EDTA Finland - Occupational Exposure Limits - 8 hour	1 mg/m³ TWA
<i>Manganese-EDTA</i> Belgium - 8 Hr VLE Czech Republic OEL	0.2 mg/m³ TWA 1 mg/m³ TWA
Sodium molybdate, Na2MoO4+2H2O Belgium - 8 Hr VLE Czech Republic OEL Finland - Occupational Exposure Limits - 8 hour France - Valeurs Limites d'exposition (VLE) France INRS (VME) Norway - 8 h: Portugal - TWAs Spain - Valores Limite Ambientales - VLE Sweden - OEL - 8 Hour	5 mg/m ³ TWA 5 mg/m ³ TWA 6 mg/m ³ 5 mg/m ³ VME 5 mg/m ³ TWA 0.5 mg/m ³ TWA 5 mg/m ³ VLA-ED 10 mg/m ³ LLV 5 mg/m ³ LLV

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Solid
Appearance:	Powder
Color:	Off-white
Odor:	No information available

Important Health Safety and Environmental Information Solubility: Completely soluble

oolubility.	Completely Soluble
Water solubility:	+/- 30 - 45 kg/100L

Other information

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition. Burning produces obnoxious and toxic fumes.
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

Boric acid, H3BO3 LD50/oral/rat =	> 3500 mg/kg
Copper-EDTA LD50/oral/rat =	> 1000 mg/kg
Sodium molybdate, Na2MoO4+2H LD50/oral/rat =	2O 4000 mg/kg
Potassium nitrate, KNO3 LD50/oral/rat =	3750mg/kg
Product information	
<u>Local effects</u> 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

Sodium molybdate, Na2MoO4+2H2O **Ecotoxicity effects**

LC50/96h/rainbow trout => 2800 mg/l

Calcium nitrate, Ca(NO3)2 Ecotoxicity effects

LC50/96h/rainbow trout =2400 mg/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:

ADR/RID

UN-No: Proper shipping name: Hazard Class: Packing group: Description:

<u>IATA</u>

UN-No: Proper shipping name: Hazard Class: Packing group: Description:

IMO / IMDG

UN-No: Proper shipping name: Hazard Class: Packing group: Description: EmS:



Solid

1479 Oxidizing solid, N.O.S. 5.1 PG III Potassiumnitrate

1479 Oxidizing solid, N.O.S. 5.1 PG III Potassiumnitrate

1479 Oxidizing solid, N.O.S. 5.1 PG III Potassiumnitrate F-A / S-Q

15. REGULATORY INFORMATION

Indication of danger:

O - Oxidizing.



R -phrase(s)

R 8 - Contact with combustible material may cause fire.

15. REGULATORY INFORMATION

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 - Irritating to eyes.

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