



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.: 2095.03.02
 Product name: Agroleaf® Power 31+11+11
 Synonyms: Agroleaf 31+4.8+9.1+TE

Use of the Substance/Preparation

Recommended use: Water soluble fertilizer

Company/Undertaking Identification

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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
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
Potassium nitrate, KNO3	7757-79-1	5 - 10%	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 vomiting. 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. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Inhalation:	Possible symptoms are coughing and/or dyspnoea. If not breathing, give artificial respiration. If symptoms persist, call a physician.
Skin contact:	If skin irritation persists, call 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:

Danger of toxic gases in smoke in case of fire.

Special protective equipment for firefighters:

No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Sweep-up to prevent slipping hazard. Use personal protective equipment.

Environmental precautions:

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

Methods for cleaning up:

Sweep up and shovel.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:

Provide appropriate exhaust ventilation at places where dust is formed.

Safe handling advice:	Avoid dust formation. Avoid contact with skin and eyes.
Storage:	
Technical measures/storage conditions:	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 °C and 40 °C .
Incompatible products:	No information available
Specific use(s):	Water soluble fertilizer.
Packaging material:	Plastic bags

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 disposable gloves.
Eye/face protection	Safety glasses.
Skin and body protection:	Wear suitable protective clothing.
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	Prevent product from entering drains.

<i>Boric acid, H3BO3</i>	
Belgium - 8 Hr VLE	2 mg/m ³ TWA
Germany TRGS900:	0.5 mg/m ³ TWA
Portugal - TWAs	2 mg/m ³ TWA

<i>Copper-EDTA</i>	
Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³ TWA

<i>Manganese-EDTA</i>	
Belgium - 8 Hr VLE	0.2 mg/m ³ TWA
Czech Republic OEL	1 mg/m ³ TWA

<i>Sodium molybdate, Na2MoO4+2H2O</i>	
Belgium - 8 Hr VLE	5 mg/m ³ TWA
Czech Republic OEL	5 mg/m ³ TWA
Finland - Occupational Exposure Limits - 8 hour	6 mg/m ³
France - Valeurs Limites d'exposition (VLE)	5 mg/m ³
France INRS (VME)	5 mg/m ³ VME
Norway - 8 h:	5 mg/m ³ TWA

Portugal - TWAs
 Spain - Valores Limite Ambientales - VLE
 Sweden - OEL - 8 Hour

0.5 mg/m³ TWA
 5 mg/m³ VLA-ED
 10 mg/m³ LLV
 5 mg/m³ 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
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+2H2O
LD50/oral/rat = 4000 mg/kg

Potassium nitrate, KNO3
LD50/oral/rat = 3750mg/kg

Product information

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

Sodium molybdate, Na₂MoO₄+2H₂O

Ecotoxicity effects

LC50/96h/rainbow trout => 2800 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:	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**Indication of danger:**

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

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.

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