

# **Material Safety Data Sheet**

# According to EC Regulation 1907/2006

Print date: 15-Jun-2011 Revision Number: 1 Revision date: 04-Mar-2008

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

Identification of the substance or preparation
MSDS Ref. No.: 2097.03.02

Product name: Agroleaf® Power 15+10+31
Synonyms: Agroleaf 15+4.4+24.9+TE

Use of the Substance/Preparation

**Recommended use:** Water soluble fertilizer

<u>Company/Undertaking</u> • Everris International BV

<u>Identification</u> 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

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Components	CAS-No	Weight %	EC-No.	Classification
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.

**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

#### 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.

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#### 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:** Provide appropriate exhaust ventilation at places where dust

is formed.

Safe handling advice:

Storage:

Specific use(s):

Technical measures/storage conditions:

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 °C and 40 °C.

**Incompatible products:** Keep away from:

Flammable materials Water soluble fertilizer.

Packaging material: Plastic bags

VCI (Germany) 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:
 0.5 mg/m³ TWA

 Portugal - TWAs
 2 mg/m³ TWA

Copper-EDTA

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Finland - Occupational Exposure Limits - 8 hour 1 mg/m<sup>3</sup> TWA

Manganese-EDTA

 Belgium - 8 Hr VLE
 0.2 mg/m³ TWA

 Czech Republic OEL
 1 mg/m³ TWA

Sodium molybdate, Na2MoO4+2H2O

Belgium - 8 Hr VLE 5 mg/m<sup>3</sup> TWA Czech Republic OEL 5 mg/m<sup>3</sup> TWA Finland - Occupational Exposure Limits - 8 hour 6 mg/m<sup>3</sup> France - Valeurs Limites d'exposition (VLE) 5 mg/m<sup>3</sup> France INRS (VME) 5 mg/m<sup>3</sup> VME 5 mg/m3 TWA Norway - 8 h: Portugal - TWAs 0.5 mg/m<sup>3</sup> TWA 5 mg/m<sup>3</sup> VLA-ED Spain - Valores Limite Ambientales - VLE Sweden - OEL - 8 Hour 10 mg/m<sup>3</sup> LLV

5 mg/m<sup>3</sup> 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

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**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**: 1479

**Proper shipping name:** Oxidizing solid, N.O.S.

Hazard Class: 5.1
Packing group: PG III

**Description:** Potassiumnitrate

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# 14. TRANSPORT INFORMATION

**IATA** 

**UN-No**: 1479

**Proper shipping name:** Oxidizing solid, N.O.S.

Hazard Class: 5.1 Packing group: PG III

**Description:** Potassiumnitrate

IMO / IMDG

**UN-No**: 1479

**Proper shipping name:** Oxidizing solid, N.O.S.

Hazard Class: 5.1
Packing group: PG III

**Description:** Potassiumnitrate

**EmS:** F-A / S-Q



# 15. REGULATORY INFORMATION

#### **Indication of danger:**

O - Oxidizing.



#### R -phrase(s)

R 8 - Contact with combustible material may cause fire.

# 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

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#### Agroleaf® Power 15+10+31

# Prepared by: Regulatory Affairs Department.

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# **End of Safety Data Sheet**

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