



# Safety Data Sheet

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Version: 4

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Name:** Agroleaf power 11-5-19+9CaO+2.5MgO+TE  
**Product Code:** 20980312GA  
**Synonyms:** Agroleaf Power 11-2.2-15.8+6.4Ca+1.5Mg+TE

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use:** Fertilizer  
 Restricted to professional users  
**Uses Advised Against:** Consumer use.

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Everris International BV  
 Nijverheidsweg 1-5; 6422 PD Heerlen (NL)  
 Tel: +31 (0) 45-5609100; Fax: +31 (0) 45-5609190

#### For further information, please contact

INFO-MSDS@EVERRIS.COM

### 1.4. Emergency telephone number

IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Mixture

*Regulation (EC) No 1272/2008*

<b>Acute toxicity - Oral</b>	Category 4 - (H302)
<b>Serious Eye Damage or Eye Irritation</b>	Category 1 - (H318)
<b>Oxidizing solids</b>	Category 3 - (H272)

*Classification according 67/548/EC and 88/379/EC or 1999/45/EC*

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

Xn - Harmful

O - Oxidizing



O



**R-code(s)**

Xn;R22 - Xi;R41 - O;R08

Full text of R-phrases: see section 16

**2.2. Label elements****Product Identifier:****Signal Word:**

Danger

**Hazard Statements:**

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H272 - May intensify fire; oxidizer

Contains Magnesium nitrate hexahydrate;  $Mg(NO_3)_2 \cdot 6H_2O$ , Nitric acid ammonium calcium salt**Precautionary Statements - EU (§28, 1272/2008)**

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking

P221 - Take any precaution to avoid mixing with combustibles

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Ingredients	EC-No.	CAS-No	Weight %	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Nitric acid ammonium calcium salt	239-289-5	15245-12-2	25 - 40%	Xn;R22 Xi;R41	Eye Dam. 1 (H318) Acute Tox. 4 (H302)	01-2119493947-16
Iron-DTPA; Fe-DTPA	235-627-0	12389-75-2	1 - 5%	NE	Not classified	01-2119980786-18
Manganese-EDTA, Mn-EDTA	239-407-5	15375-84-5	0.1 - 1%	NE	Not classified	01-2119493600-40
Copper-EDTA; Cu-EDTA	237-864-5	14025-15-1	0.1 - 1%	Xn;R22	Acute Tox. 4 (H302)	01-2119963944-23
Boric Acid; H3BO3	233-139-2	10043-35-3	0.1 - 1%	Repr.Cat.2;R60-6 1	Repr. 1B (H360FD)	01-2119486683-25
Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub> ·2H <sub>2</sub> O	231-551-7	7631-95-0	< 0.1%	NE	Not classified	01-2119489495-21

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General Advice:</b>	First aid measures should be executed by trained personnel only.
<b>Inhalation:</b>	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.
<b>Skin Contact:</b>	If skin irritation persists, call a physician.
<b>Eye Contact:</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Ingestion:</b>	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. Do not induce vomiting without medical advice. Consult a physician if necessary. Call a physician or Poison Control Centre immediately.
<b>Protection of First-Aiders:</b>	Avoid contact with eyes. Use personal protective equipment.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms:** None under normal processing

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes to Physician:** None under normal processing.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media:**

Coordinate fire extinguishing measures to fire in surrounding area. Flooding quantities of water.

**Unsuitable extinguishing media:**

High volume water jet.

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors. The product itself does not burn. May intensify fire; oxidizer.

### 5.3. Advice for firefighters

Coordinate fire extinguishing measures to fire in surrounding area.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Wear personal protective equipment.

**For Emergency Responders:** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up**

**Methods for Containment:** Prevent further leakage or spillage if safe to do so.

**Methods for Cleanup:** Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air.

**6.4. Reference to other sections**

§ 8, 12, 13.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

**7.2. Conditions for safe storage, including any incompatibilities**

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.

LGK (Germany)

Packaging Materials:

5.1B  
Bags or Bulk.

**7.3. Specific end use(s)**

Specific use(s)

Fertilizer; Read and follow label instructions; www.everris.com

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

<i>Iron-DTPA; Fe-DTPA</i>	
Spain Occupational Exposure Limits Data - Time Weighted Average (TWA):	TWA: 1 mg/m <sup>3</sup>
Portugal	TWA: 1 mg/m <sup>3</sup>
Finland	TWA: 1 mg/m <sup>3</sup>
Denmark	TWA: 1 mg/m <sup>3</sup>
Switzerland	TWA: 1 mg/m <sup>3</sup>
<i>Manganese-EDTA; Mn-EDTA</i>	
Czech Republic OEL	1 mg/m <sup>3</sup> TWA
Ireland	TWA: 0.2 mg/m <sup>3</sup>
<i>Copper-EDTA; Cu-EDTA</i>	
Finland	TWA: 1 mg/m <sup>3</sup>
Austria	STEL 4 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
<i>Boric Acid; H3BO3</i>	
Latvia - Occupational Exposure Limits - TWAs	10 mg/m <sup>3</sup> TWA
Bulgaria - Occupational Exposure Limits - TWAs	5.0 mg/m <sup>3</sup> TWA (as B, listed under Boron and its inorganic compounds)
Spain Occupational Exposure Limits Data - Time Weighted Average (TWA):	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Portugal	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Portugal - TWAs	2 mg/m <sup>3</sup> TWA
Switzerland	STEL: 10 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
<i>Sodium molybdate; Na2MoO4+2H2O</i>	
UK oes/mel:	TWA: 5 mg/m <sup>3</sup>

France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Czech Republic OEL	5 mg/m <sup>3</sup> TWA
Spain Occupational Exposure Limits Data - Time Weighted Average (TWA):	TWA: 0.5 mg/m <sup>3</sup>
Portugal	TWA: 0.5 mg/m <sup>3</sup>
Finland - Occupational Exposure Limits - 8 hour	6 mg/m <sup>3</sup>
Finland	TWA: 0.5 mg/m <sup>3</sup>
Denmark	TWA: 5 mg/m <sup>3</sup>
Austria	STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Switzerland	TWA: 5 mg/m <sup>3</sup>
Poland	STEL: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
Norway	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>
France - Valeurs Limites d'exposition (VLE)	5 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)**

No data available

**Predicted No Effect Concentration (PNEC)**

No data available.

**8.2. Exposure controls**

**Engineering Measures to Reduce Exposure:** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

Eye/Face Protection: Tightly fitting safety goggles Not required  
 Hand protection: Nitrile rubber (0.26 mm). Break through time. > 8 h.  
 Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment  
 Skin and Body Protection: Wear normal, light working clothing  
 Hygiene Measures: Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Crystals
<b>Color:</b>	light green.
<b>Odor:</b>	Not significant
<b>pH:</b>	4.5 (@ 200 g/l)
<b>Melting Point/Freezing Point:</b>	no data available
<b>Boiling Point/Range:</b>	Solid, not applicable
<b>Flash Point:</b>	Solid, not applicable
<b>Evaporation Rate:</b>	Solid, not applicable
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Vapor Pressure:</b>	Solid, not applicable
<b>Vapor Density:</b>	Solid, not applicable
<b>Specific Gravity:</b>	no data available
<b>Water Solubility:</b>	Soluble in water
<b>Solubility(ies)</b>	no data available
<b>Partition Coefficient:</b>	Solid, not applicable
<b>Autoignition Temperature:</b>	not applicable
<b>Decomposition Temperature:</b>	no data available
<b>Explosive Properties:</b>	Doesn't present explosion hazard. Based on data of ingredients.
<b>Oxidizing Properties:</b>	May intensify fire; oxidizer.

**9.2. Other information****Bulk density:**800 - 1200 kg/m<sup>3</sup>**Section 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Not reactive.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions****Hazardous Decomposition Products:**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Possibility of Hazardous Reactions:**

None under normal processing.

**10.4. Conditions to avoid**

For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

**10.5. Incompatible materials**

Strong oxidizing agents. Acids and bases. Strong reducing agents. Flammable materials.

**10.6. Hazardous decomposition products**

None under normal processing.

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute Toxicity****Product Information:****Inhalation:**

May cause irritation of respiratory tract.

**Eye Contact:**

Causes serious eye damage.

**Skin Contact:**

May cause irritation.

**Ingestion:**

Harmful if swallowed.

**Unknown Acute Toxicity:**

1% of the mixture consists of ingredient(s) of unknown toxicity.

**The following values are calculated based on chapter 3.1 of the GHS document:****ATEmix (oral):** 1,479.00 mg/kg**Component Information:**

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitric acid ammonium calcium salt	= 2000 mg/kg ( Rat )		
Boric Acid; H3BO3	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 0.16 mg/L ( Rat ) 4 h
Sodium molybdate; Na2MoO4+2H2O	= 4233 mg/kg ( Rat )	> 2000 mg/kg (Rat)	> 2080 mg/m <sup>3</sup> ( Rat ) 4 h

**Skin Corrosion or Irritation**

See also section 3.

**Serious Eye Damage or Eye Irritation**

See also section 3.

**Sensitization**

See also section 3.

**Mutagenic effects**

See also section 3.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

**Reproductive Toxicity**

Ingredients	EU - GHS - SV - CLP (1272/2008) - Reproductive Toxicity
Boric Acid; H3BO3	Reproductive Toxicity - Repr. 1B: H360FD May damage fertility. May damage the unborn child. (C >= 5.5 %)

**Teratogenicity**

No data available.

**STOT - Single Exposure**  
**STOT - Repeated Exposure**  
**Aspiration Hazard**

No known effects under normal use conditions.  
 None under normal use conditions.  
 No data available.

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Do not allow product to enter the environment uncontrolled.

1% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Ingredients	Algae/aquatic plants	Fish	Crustacea
Nitric acid ammonium calcium salt		447: 48 h Carassius auratus mg/L LC50	
Boric Acid; H3BO3			115 - 153: 48 h Daphnia magna mg/L EC50

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

Ingredients	LOGPOW
Nitric acid ammonium calcium salt	0
Boric Acid; H3BO3	-0.757

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

not applicable

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Disposal of Wastes:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging:**

Do not re-use empty containers. Dispose of as unused product.

**Other Information:**

Use up product completely. Packaging material is industrial waste.

**Section 14: TRANSPORT INFORMATION**

**IMO / IMDG**

**14.1**

**UN-No:**

1479

**14.2**

**Proper shipping name:**

Oxidizing solid, N.O.S. (Potassium nitrate)

**14.3**

**Hazard Class:**

5.1

**14.4**

**Packing group:**

PG III

**14.5**

**Marine Pollutant:**

Not regulated

**14.6**

**EmS:**

F-A / S-Q

**Special Provisions**

223, 274, 900

**14.7**

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not regulated

**ADR/RID**

**14.1**  
UN-No: 1479

**14.2**  
Proper shipping name: Oxidizing solid, N.O.S. (Potassium nitrate)

**14.3**  
Hazard Class: 5.1

**14.4**  
Packing group: PG III

**14.5**  
Environmental Hazard Not regulated

**14.6**  
Special Provisions 274  
Tunnel restriction code E

**IATA**

**14.1**  
UN-No: 1479

**14.2**  
Proper shipping name: Oxidizing solid, N.O.S. (Potassium nitrate)

**14.3**  
Hazard Class: 5.1

**14.4**  
Packing group: PG III

**14.5**  
Environmental Hazard Not regulated

**14.6**  
Special Provisions A3



**Section 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

*France*

ICPE (FR): Classified installation: article 1230

*Germany*

Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

LGK (Germany) 5.1B

Water Endangering Class (WGK): 1 (Everris classification )

Component	German WGK Section
Boric Acid; H3BO3 10043-35-3 ( 0.1 - 1% )	class 1



Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub> +2H <sub>2</sub> O 7631-95-0 (< 0.1%)	class 1
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**European Union**

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

**15.2. Chemical safety assessment**

Not required. Substance(s) usage is covered according to Reach regulation 1907/2006.

**Section 16: OTHER INFORMATION****Text of R Phrases mentioned in Section 3**

R8 - Contact with combustible material may cause fire  
 R22 - Harmful if swallowed  
 R41 - Risk of serious damage to eyes  
 R60 - May impair fertility  
 R61 - May cause harm to the unborn child

**Full text of H-Statements referred to under sections 2 and 3**

H360FD - May damage fertility. May damage the unborn child  
 H319 - Causes serious eye irritation  
 H302 - Harmful if swallowed  
 H318 - Causes serious eye damage  
 H272 - May intensify fire; oxidizer

**Key or legend to abbreviations and acronyms used in the safety data sheet**

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail  
 ICAO: International Civil Aviation Organization  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 PNEC: Predicted No Effect Concentration  
 DNEL: Derived No-Effect Level  
 Reach: Registration, Evaluation, authorization of Chemicals  
 CLP: EU-GHS; Classification, Labelling and Packaging  
 OEL: Occupational Exposure Limit  
 TWA: Time Weighted Average  
 ATE: Acute Toxicity Estimate  
 EUH statement: CLP (EU) specific hazard statement.

**Classification procedure:**

- Calculation method  
 - Expert judgment and weight of evidence determination

**Key literature references and sources for data**

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 453/2010  
 Regulation (EC) No 1272/2008

**Prepared by:**

Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

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**Reason for revision:**

\*\*\* Indicates changes since the last revision. This version replaces all previous versions.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

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**End of Safety Data Sheet**