

Safety Data Sheet

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Version: 1

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

1.1. Product identifier

Product Name: Greenmaster Pro-Lite Autumn Mg; 6-5-11+3MgO
Product Code: 52180125DB
Synonyms: Greenmaster ProLite 6-2.2-9.1+1.8Mg+Fe

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 [SU 21].

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

Serious Eye Damage or Eye Irritation	Category 1 - (H318)
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2.2. Label elements

Contains Iron sulphate; $\text{FeSO}_4 \cdot \text{H}_2\text{O}$, Potassium sulphate; K_2SO_4



Signal Word:

Danger

Hazard Statements:

H318 - Causes serious eye damage

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

Other hazards (UN-GHS)

H316 - Causes mild skin irritation

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Ingredients	EC-No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Sand	238-878-4	14808-60-7	25 - 40%	Not classified	Exempt
Potassium sulphate; K ₂ SO ₄	231-915-5	7778-80-5	10 - 25%	Eye Dam. 1 (H318)	01-2119489441-34
Magnesium sulphate monohydrate; MgSO ₄ +1H ₂ O	213-298-2	14567-64-7	10 - 25%	Not classified	Exempt
Mono ammonium phosphate; NH ₄ H ₂ PO ₄	231-764-5	7722-76-1	5 - 10%	Not classified	01-2119488166-29
Water	231-791-2	7732-18-5	1 - 5%	Not classified	Exempt
Iron sulphate; FeSO ₄ +1H ₂ O	231-753-5	7720-78-7	1 - 5%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119513203-57

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice:	First aid measures should be executed by trained personnel only.
Inhalation:	If symptoms persist, call a physician.
Skin Contact:	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label.
Protection of First-Aiders:	Low hazard for usual industrial or commercial handling.

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:**

Use dry chemical, CO₂, water spray or "alcohol" foam. Coordinate fire extinguishing measures to fire in surrounding area.

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.

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: Use personal protective equipment.

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

6.2. Environmental precautions

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

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: Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

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:

Store in original container. Keep tightly closed in a dry and cool place. Protect from extreme temperatures.

LGK (Germany)

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Packaging Materials:

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>Sand</i>	
Austria	TWA: 0.15 mg/m ³
Australia TWA	0.1 mg/m ³ TWA respirable dust
Belgium - 8 Hr TWA	0.1 mg/m ³ TWA
Bulgaria - Occupational Exposure Limits - TWAs	0.07 mg/m ³ TWA (respirable fraction, listed under free Crystalline silicon dioxide)
Czech Republic OEL	0.1 mg/m ³ TWA (dust)
Denmark	TWA: 0.3 mg/m ³ TWA: 0.1 mg/m ³
Finland	TWA: 0.05 mg/m ³
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 0.1 mg/m ³
Hungary - Occupational Exposure Limits - TWAs	0.15 mg/m ³ TWA
Iceland - OEL - 8 Hour	0.3 mg/m ³ TWA 0.1 mg/m ³ TWA
Ireland	TWA: 0.1 mg/m ³
Korea - ISHA - Occupational Exposure Limits - TWAs	0.05 mg/m ³ TWA (respirable fraction, Serial No. 264)
Malaysia - Occupational Exposure Limits - TWAs	0.1 mg/m ³ TWA (respirable fraction)
Netherlands National MAC Data - Time Weighted Average (TWA):	TWA: 0.075 mg/m ³
Norway	TWA: 0.3 mg/m ³ TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ STEL: 0.1 mg/m ³
Poland	TWA: 2 mg/m ³ TWA: 0.3 mg/m ³ TWA: 4.0 mg/m ³

	TWA: 1.0 mg/m ³
Portugal	TWA: 0.025 mg/m ³
Romania - Occupational Exposure Limits - TWAs	0.1 mg/m ³ TWA (respirable fraction, dust)
Russia TWA	1 mg/m ³ TWA 1123 1 mg/m ³ TWA 1124
Slovak Republic - Threshold Limit Values - TWAs	0.1 mg/m ³ TWA
Slovenia - Occupational Exposure Limits - TWAs	0.15 mg/m ³ TWA (respirable fraction)
Spain OEL - Time Weighted Average (TWA):	TWA: 0.05 mg/m ³
Singapore - OEL:PELs	0.1 mg/m ³ PEL
Switzerland	TWA: 0.15 mg/m ³
UK oes/mel:	TWA: 0.1 mg/m ³
<i>Potassium sulphate; K₂SO₄</i>	
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m ³ TWA
Latvia - Occupational Exposure Limits - TWAs	10 mg/m ³ TWA
<i>Iron sulphate; FeSO₄+1H₂O</i>	
Belgium - 8 Hr TWA	1 mg/m ³
Denmark	TWA: 1 mg/m ³
Finland	TWA: 1 mg/m ³
Ireland	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Norway	TWA: 1 mg/m ³ STEL: 1 mg/m ³
Portugal	TWA: 1 mg/m ³
Spain OEL - Time Weighted Average (TWA):	TWA: 1 mg/m ³
Switzerland	TWA: 1 mg/m ³
UK oes/mel:	TWA: 1 mg/m ³

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face Protection No special protective equipment required.

Skin and body protection No special protective equipment required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. 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

Physical State:	Solid
Color:	grey, brown.
Odor:	Not significant
Bulk density:	+/- 1000 kg/m ³
pH:	no data available
Melting Point/Freezing Point:	no data available
Boiling Point/Range:	Solid, Not Applicable
Flash Point:	Solid, Not Applicable
Evaporation Rate:	Solid, Not Applicable
Flammability (solid, gas):	Non-flammable
Vapor Pressure:	Solid, Not Applicable
Vapor Density:	Solid, Not Applicable
Specific Gravity:	no data available
Water Solubility:	Soluble in water

Solubility(ies)	no data available
Partition Coefficient:	Solid, Not Applicable
Autoignition Temperature:	Not Applicable
Decomposition Temperature:	no data available
Explosive Properties:	Doesn't present explosion hazard. Based on data of ingredients.

9.2. Other information

Not applicable

Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Not reactive.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions**Possibility of hazardous reactions**

None under normal processing.

Hazardous Decomposition Products:

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

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

None known based on information supplied.

10.6. Hazardous decomposition products

None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):****Product Information**

Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause irritation.
Skin Contact	May cause irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on Toxicological**Effects:**

Symptoms	No information available.
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Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral):	15,603.00 mg/kg
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Unknown Acute Toxicity:	0% of the mixture consists of ingredient(s) of unknown toxicity.
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Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
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Sand	= 500 mg/kg (Rat)		
Potassium sulphate; K ₂ SO ₄	= 6600 mg/kg (Rat)	> 2000 mg/kg (Rat)	
Mono ammonium phosphate; NH ₄ H ₂ PO ₄	= 5750 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	
Water	>2000 mg/kg		
Iron sulphate; FeSO ₄ +1H ₂ O	= 500 mg/kg (Rat)		

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive Toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

Section 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Ecotoxicity Do not allow product to enter the environment uncontrolled.

Unknown Aquatic Toxicity: 11% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Ingredients	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Potassium sulphate; K ₂ SO ₄	2900: 72 h Desmodesmus subspicatus mg/L EC50	653: 96 h Lepomis macrochirus mg/L LC50 3550: 96 h Lepomis macrochirus mg/L LC50 static 510 - 880: 96 h Pimephales promelas mg/L LC50 static	-	890: 48 h Daphnia magna mg/L EC50
Iron sulphate; FeSO ₄ +1H ₂ O	-	925: 96 h Poecilia reticulata mg/L LC50 static 0.56: 96 h Cyprinus carpio mg/L LC50 semi-static	-	152: 48 h Daphnia magna mg/L EC50 6.15 - 9.26: 48 h Daphnia magna mg/L EC50 Static

12.2. Persistence and degradability

Persistence and Degradability: No information available.

12.3. Bioaccumulative potential

Bioaccumulation: No information available.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

Mobility: No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

<p>Disposal of Wastes:</p> <p>Contaminated Packaging:</p> <p>Other Information:</p>	<p>Disposal should be in accordance with applicable regional, national and local laws and regulations.</p> <p>Do not re-use empty containers. Dispose of as unused product. Use up product completely. Packaging material is industrial waste.</p>
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Section 14: TRANSPORT INFORMATION

IMO / IMDG

<p>14.1 UN-No:</p> <p>14.2 Proper shipping name:</p> <p>14.3 Hazard Class:</p> <p>14.4 Packing group:</p> <p>14.5 Marine Pollutant:</p> <p>14.6 Special Provisions</p> <p>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</p>	<p>Not regulated</p> <p>Not regulated</p> <p>Not regulated</p> <p>Not regulated</p> <p>Not regulated</p> <p>No information available</p> <p>None</p> <p>Not regulated</p>
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ADR/RID

<p>14.1 UN-No:</p> <p>14.2 Proper shipping name:</p> <p>14.3 Hazard Class:</p> <p>14.4 Packing group:</p> <p>14.5 Environmental Hazard</p> <p>14.6 Special Provisions</p>	<p>Not regulated</p> <p>Not regulated</p> <p>Not regulated</p> <p>Not regulated</p> <p>Not regulated</p> <p>None</p>
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IATA

<p>14.1 UN-No:</p> <p>14.2 Proper shipping name:</p> <p>14.3 Hazard Class:</p>	<p>Not regulated</p> <p>Not regulated</p> <p>Not regulated</p>
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14.4	
Packing group:	Not regulated
14.5	
Environmental Hazard	Not regulated
14.6	
Special Provisions	None

Section 15: REGULATORY INFORMATION

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

Belgium

Denmark

Danish Sikkerhedsgruppe No data available

France

ICPE Not regulated

Germany

LGK (Germany) 13
 Water Endangering Class (WGK): 1 (Everris classification)
 Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

Component	German WGK Section
Potassium sulphate; K ₂ SO ₄ 7778-80-5 (10 - 25%)	class 1
Mono ammonium phosphate; NH ₄ H ₂ PO ₄ 7722-76-1 (5 - 10%)	class 1
Iron sulphate; FeSO ₄ +1H ₂ O 7720-78-7 (1 - 5%)	class 1

European Union

REACH:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not Applicable

15.2 Chemical safety assessment

Chemical Safety Report Substance(s) usage is covered according to Reach regulation 1907/2006

Section 16: OTHER INFORMATION

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

H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H302 - Harmful if swallowed

H318 - Causes serious eye damage
H316 - Causes mild skin irritation

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. 2015/830
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**Disclaimer**

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