

# Safety Data Sheet

Revision Date: 26-Oct-2016

Version: 2.02

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

### 1.1. Product identifier

**Product Name:** Sierrablen Plus 24-5-8+2MgO  
**Product Code:** 41980125DA  
**Synonyms:** Landscaper Pro 24-2.2-6.6+1.2Mg

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

**Recommended Use:** Fertilizer.  
**Uses Advised Against:** None.

### 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>Eye Irritation</b>	Category 1 - (H318)
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### 2.2. Label elements

Contains Ammonium Nitrate;  $\text{NH}_4\text{NO}_3$ , Potassium sulphate;  $\text{K}_2\text{SO}_4$



#### 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
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>	229-347-8	6484-52-2	25 - 40%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Urea	200-315-5	57-13-6	25 - 40%	Not classified	01-2119463277-33
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	231-915-5	7778-80-5	10 - 25%	Eye Dam. 1 (H318)	01-2119489441-34
Sulphur; S	231-722-6	7704-34-9	5 - 10%	Skin Irrit. 2 (H315)	01-2119487295-27
Magnesium oxide; MgO	215-171-9	1309-48-4	1 - 5%	Not classified	Exempt

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 case of shortness of breath, give oxygen. Possible symptoms are coughing and/or dyspnoea. Move to fresh air. If symptoms persist, call a physician.
<b>Skin Contact:</b>	If a person feels unwell or symptoms of skin irritation appear, consult a physician.
<b>Eye Contact:</b>	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
<b>Ingestion:</b>	Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. In case of respiratory difficulties practice oxygenotherapy. Possible symptoms are nausea and/or vomiting.
<b>Protection of First-Aiders:</b>	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:**

Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.

**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:** 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. Prevent product from entering drains.

### 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 away from heat and sources of ignition. 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.

Packaging Materials: Bags or Bulk.

### 7.3. Specific end use(s)

Specific use(s) Fertilizer; Read and follow label instructions; [www.everris.com](http://www.everris.com)

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

<i>Ammonium Nitrate; NH<sub>4</sub>NO<sub>3</sub></i>	
Australia TWA	N.A.
Czech Republic OEL	10.0 mg/m <sup>3</sup> TWA
<i>Urea</i>	
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m <sup>3</sup> TWA
Latvia - Occupational Exposure Limits - TWAs	10 mg/m <sup>3</sup> TWA
Norway	TWA: 30 µg Hg/g Creatinine STEL: 30 µg Hg/g Creatinine
<i>Potassium sulphate; K<sub>2</sub>SO<sub>4</sub></i>	
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m <sup>3</sup> TWA
Latvia - Occupational Exposure Limits - TWAs	10 mg/m <sup>3</sup> TWA
<i>Sulphur; S</i>	
Latvia - Occupational Exposure Limits - TWAs	6 mg/m <sup>3</sup> TWA
Russia TWA	6 mg/m <sup>3</sup> TWA 1790
<i>Magnesium oxide; MgO</i>	
Austria	STEL 20 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Australia TWA	10 mg/m <sup>3</sup> TWA fume
Belgium - 8 Hr TWA	10 mg/m <sup>3</sup>
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m <sup>3</sup> TWA
Czech Republic OEL	5 mg/m <sup>3</sup> TWA

Denmark	TWA: 6 mg/m <sup>3</sup>
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 10 mg/m <sup>3</sup>
Hungary - Occupational Exposure Limits - TWAs	6 mg/m <sup>3</sup> TWA
Iceland - OEL - 8 Hour	6 mg/m <sup>3</sup> TWA Mg
Ireland	TWA: 4 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>
Korea - ISHA - Occupational Exposure Limits - TWAs	10 mg/m <sup>3</sup> TWA (Serial No. 272)
Malaysia - Occupational Exposure Limits - TWAs	10 mg/m <sup>3</sup> TWA (fume)
Norway	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>
Poland	TWA: 10 mg/m <sup>3</sup>
Portugal	TWA: 10 mg/m <sup>3</sup>
Romania - Occupational Exposure Limits - TWAs	5 mg/m <sup>3</sup> TWA (fume)
Spain OEL - Time Weighted Average (TWA):	TWA: 10 mg/m <sup>3</sup>
Singapore - OEL:PELs	10 mg/m <sup>3</sup> PEL
Switzerland	TWA: 3 mg/m <sup>3</sup>
UK oes/mel:	STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>

**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

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Granules
<b>Color:</b>	brown.
<b>Odor:</b>	Not significant
<b>Bulk density:</b>	800 - 1100 kg/m <sup>3</sup>
<b>pH:</b>	no data available
<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.

**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**

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

**Information on Toxicological Effects:**

<b>Symptoms</b>	No information available.
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**Acute Toxicity**

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

<b>ATEmix (oral):</b>	47,653.00 mg/kg
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<b>Unknown Acute Toxicity:</b>	0% of the mixture consists of ingredient(s) of unknown toxicity.
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Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>	= 2217 mg/kg ( Rat )		> 88.8 mg/L ( Rat ) 4 h

Urea	= 8471 mg/kg ( Rat )		
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	= 6600 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	
Sulphur; S	> 3000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 9.23 mg/L ( Rat ) 4 h

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

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

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecotoxicity** Do not allow product to enter the environment uncontrolled.

**Unknown Aquatic Toxicity:** 9% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Ingredients	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Urea	> 10000: 192 h Scenedesmus quadricauda mg/L EC50	16200 - 18300: 96 h Poecilia reticulata mg/L LC50	-	3910: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna Straus mg/L EC50
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	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
Sulphur; S	-	866: 96 h Brachydanio rerio mg/L LC50 static 14: 96 h Lepomis macrochirus mg/L LC50 static 180: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-

### 12.2. Persistence and degradability

**Persistence and Degradability:** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation:** No information available.

Ingredients	LOGPOW
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>	-3.1
Urea	-1.59

**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**

**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:**

Not regulated

**14.2**

**Proper shipping name:**

Not regulated

**14.3**

**Hazard Class:**

Not regulated

**14.4**

**Packing group:**

Not regulated

**14.5**

**Marine Pollutant:**

No information available

**14.6**

**Special Provisions**

None

**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:**

Not regulated

**14.2**

**Proper shipping name:**

Not regulated

**14.3**

**Hazard Class:**

Not regulated

**14.4**

**Packing group:**

Not regulated

**14.5**

**Environmental Hazard**

Not regulated

**14.6**

Special Provisions None

**IATA**

**14.1**  
UN-No: Not regulated

**14.2**  
Proper shipping name: Not regulated

**14.3**  
Hazard Class: Not regulated

**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**

Component	Belgium - Major Accidents - Qualifying Quantities for Safety Reporting	Belgium - Major Accidents - Qualifying Quantities for Accident Prevention
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 25 - 40% )	2500 tonne (Note 3, applies to Ammonium nitrate in which the Nitrogen content due to Ammonium nitrate is >28% by weight containing ≤0.2 % combustible material, >24.5% and <28% by weight containing ≤0.4% combustible material and to aqueous Ammonium nitrate solutions in which the concentration of Ammonium nitrate is >80% by weight)	350 tonne (Note 3, applies to Ammonium nitrate in which the Nitrogen content due to Ammonium nitrate is >28% by weight containing ≤0.2 % combustible material, >24.5% and <28% by weight containing ≤0.4% combustible material and to aqueous Ammonium nitrate solutions in which the concentration of Ammonium nitrate is >80% by weight)

**Denmark**

Danish Sikkerhedsgruppe No data available

**France**

ICPE Not regulated

**Germany**

Water Endangering Class (WGK): 1 (Everris classification )  
Gefahrstoffverordnung (Germany) TRGS 511 C III

Component	German WGK Section
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 25 - 40% )	class 1
Urea 57-13-6 ( 25 - 40% )	class 1
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> 7778-80-5 ( 10 - 25% )	class 1
Sulphur; S 7704-34-9 ( 5 - 10% )	class 1
Magnesium oxide; MgO 1309-48-4 ( 1 - 5% )	class 1

**European Union****REACH:**

Component	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 25 - 40% )	Use restricted. See item 58. (Conditions of restrictions 27 June 2010)



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**

H319 - Causes serious eye irritation

H272 - May intensify fire; oxidizer

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H315 - Causes skin irritation

H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ respiratory system/ central nervous system through prolonged or repeated exposure in contact with skin

H411 - Toxic to aquatic life with long lasting effects

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)

**Revision Date:**

26-Oct-2016

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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