

Safety Data Sheet

Issue Date: 18-Mar-2014

Revision Date: 20-Apr-2016

Version: 1

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

1.1. Product identifier

Product Name: Agroblen 10-7-22+2MgO
Product Code: E86290325GC
Synonyms: Agroblen 10-3.1-18.2+1.2Mg

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

| | |
|---|---------------------|
| Serious Eye Damage or Eye Irritation | Category 1 - (H318) |
|---|---------------------|

2.2. Label elements

Product Identifier:



Signal Word:

Danger

Hazard Statements:

H318 - Causes serious eye damage
Contains Ammonium Nitrate; NH_4NO_3 , Potassium sulphate; K_2SO_4

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

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 |
|---|-----------|------------|----------|---|---------------------------|
| Potassium sulphate; K ₂ SO ₄ | 231-915-5 | 7778-80-5 | 25 - 40% | Eye Dam. 1 (H318) | 01-2119489441-34 |
| Ammonium Nitrate; NH ₄ NO ₃ | 229-347-8 | 6484-52-2 | 25 - 40% | Eye Irrit. 2 (H319) Ox. Sol. 3 (H272) | 01-2119490981-27 |
| Magnesite; MgCO ₃ | 208-915-9 | 546-93-0 | 1 - 5% | NE | 01-2119523999-20 |
| Magnesium oxide; MgO | 215-171-9 | 1309-48-4 | 1 - 5% | Not classified | Exempt |
| Calcium sulphate dihydrate; CaSO ₄ +2H ₂ O | 231-900-3 | 10101-41-4 | 0.1 - 1% | Not classified | 01-2119444918-26 |
| Calcium Carbonate; CaCO ₃ | 207-439-9 | 471-34-1 | 0.1 - 1% | Not classified | Exempt |
| Urea | 200-315-5 | 57-13-6 | 0.1 - 1% | Not classified | 01-2119463277-33 |
| Calcium fluoride; CaF ₂ | 232-188-7 | 7789-75-5 | 0.1 - 1% | 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

| | |
|------------------------------------|---|
| General Advice: | First aid measures should be executed by trained personnel only. |
| Inhalation: | Dusty conditions are unlikely if product is used as intended. However, if prolonged inhalation of dust occurs, remove casualty to fresh air. If symptoms persist, call a physician. |
| Skin Contact: | If a person feels unwell or symptoms of skin irritation appear, consult a physician. Rinse with plenty of water. |
| Eye Contact: | Rinse eyes with water as a precaution. If eye irritation persists, consult a specialist. |
| Ingestion: | If conscious, drink plenty of water. Do NOT induce vomiting. Rinse mouth. Consult a physician if necessary. |
| 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:

Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO₂, 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.

LGK (Germany)

Packaging Materials:

5.1C

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>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>Ammonium Nitrate; NH₄NO₃</i> | |
| Australia TWA | N.A. |
| Czech Republic OEL | 10.0 mg/m ³ TWA |
| <i>Magnesite; MgCO₃</i> | |
| Australia TWA | 10 mg/m ³ TWA inhalable dust |
| Belgium - 8 Hr TWA | 10 mg/m ³ TWA |
| France - Occupational Exposure Limits - 8 Hour VMEs | TWA: 10 mg/m ³ |

| | |
|---|---|
| Switzerland | TWA: 3 mg/m ³ |
| UK oes/mel: | STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ |
| <i>Magnesium oxide; MgO</i> | |
| Austria | STEL 20 mg/m ³ STEL 10 mg/m ³ TWA: 5 mg/m ³ TWA: 10 mg/m ³ |
| Australia TWA | 10 mg/m ³ TWA fume |
| Belgium - 8 Hr TWA | 10 mg/m ³ |
| Bulgaria - Occupational Exposure Limits - TWAs | 10.0 mg/m ³ TWA |
| Czech Republic OEL | 5 mg/m ³ TWA |
| Denmark | TWA: 6 mg/m ³ |
| Greece - OEL | 10 mg/m ³ TWA (inhalable fraction); 5 mg/m ³ TWA (respirable fraction) |
| Iceland - OEL - 8 Hour | 6 mg/m ³ TWA Mg |
| France - Occupational Exposure Limits - 8 Hour VMEs | TWA: 10 mg/m ³ |
| German mak | TWA: 1.5 mg/m ³ TWA: 4 mg/m ³ |
| Hungary - Occupational Exposure Limits - TWAs | 6 mg/m ³ TWA |
| Ireland | TWA: 4 mg/m ³ TWA: 5 mg/m ³ TWA: 10 mg/m ³ STEL: 10 mg/m ³ |
| Netherlands - OEL - MACs: | 10 mg/m ³ |
| Norway | TWA: 10 mg/m ³ STEL: 20 mg/m ³ |
| Poland | TWA: 5 mg/m ³ TWA: 10 mg/m ³ |
| Portugal | TWA: 10 mg/m ³ |
| Romania - Occupational Exposure Limits - TWAs | 5 mg/m ³ TWA (fume) |
| Spain OEL - Time Weighted Average (TWA): | TWA: 10 mg/m ³ |
| Switzerland | TWA: 3 mg/m ³ |
| UK oes/mel: | STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ |
| <i>Calcium sulphate dihydrate; CaSO₄+2H₂O</i> | |
| German mak | TWA: 1.5 mg/m ³ TWA: 4 mg/m ³ |
| Portugal | TWA: 10 mg/m ³ |
| Spain OEL - Time Weighted Average (TWA): | TWA: 10 mg/m ³ |
| Switzerland | TWA: 3 mg/m ³ |
| <i>Calcium Carbonate; CaCO₃</i> | |
| Australia TWA | 10 mg/m ³ TWA inhalable dust |
| Bulgaria - Occupational Exposure Limits - TWAs | 10.0 mg/m ³ TWA |
| Czech Republic OEL | 10.0 mg/m ³ TWA |
| France - Occupational Exposure Limits - 8 Hour VMEs | TWA: 10 mg/m ³ |
| Latvia - Occupational Exposure Limits - TWAs | 6 mg/m ³ TWA |
| Poland | TWA: 10 mg/m ³ |
| Portugal | TWA: 10 mg/m ³ |
| <i>Urea</i> | |
| Bulgaria - Occupational Exposure Limits - TWAs | 10.0 mg/m ³ TWA |
| Latvia - Occupational Exposure Limits - TWAs | 10 mg/m ³ TWA |
| Norway | TWA: 30 µg Hg/g Creatinine STEL: 45 µg Hg/g Creatinine |
| <i>Calcium fluoride; CaF₂</i> | |
| Denmark | TWA: 2.5 mg/m ³ |
| German mak | TWA: 1 mg/m ³ Skin |
| Ireland | TWA: 2.5 mg/m ³ |
| Latvia - Occupational Exposure Limits - TWAs | 0.5 mg/m ³ TWA (as F, listed under Hydrofluoric acid salts) |

| | |
|---|---|
| Poland | STEL: 2 mg/m ³ TWA: 2 mg/m ³ |
| Portugal | TWA: 2.5 mg/m ³ |
| Romania - Occupational Exposure Limits - TWAs | 1 mg/m ³ TWA |
| Russia TWA | 0.5 mg/m ³ TWA F |

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
 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: Lightweight 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.

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

| | |
|--------------------------------------|---|
| Physical State: | Solid |
| Appearance: | granules |
| Color: | grey, brown. |
| Odor: | Not significant |
| Bulk density: | 918 - 1068 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 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. Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

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: | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| Unknown Acute Toxicity: | 0% 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): 22,335.00 mg/kg

Component Information:

| Ingredients | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|----------------------|-------------|-------------------------|
| Potassium sulphate; K ₂ SO ₄ | = 6600 mg/kg (Rat) | | |
| Ammonium Nitrate; NH ₄ NO ₃ | = 2217 mg/kg (Rat) | | > 88.8 mg/L (Rat) 4 h |
| Calcium Carbonate; CaCO ₃ | = 6450 mg/kg (Rat) | | |
| Calcium fluoride; CaF ₂ | = 4250 mg/kg (Rat) | | |

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**Teratogenicity**

No known effects under normal use conditions.

STOT - Single Exposure

No known effects under normal use conditions.

STOT - Repeated Exposure

None under normal use conditions.

Aspiration Hazard

None under normal use.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Do not allow product to enter the environment uncontrolled.

13% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

| Ingredients | Algae/aquatic plants | Fish | Crustacea |
|-------------|----------------------|------|-----------|
| | | | |

| | | | |
|--|---|---|--|
| Potassium sulphate; K ₂ SO ₄ | 2900: 72 h <i>Desmodemus subspicatus</i> mg/L EC50 | 3550: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 510 - 880: 96 h <i>Pimephales promelas</i> mg/L LC50 static 653: 96 h <i>Lepomis macrochirus</i> mg/L LC50 | 890: 48 h <i>Daphnia magna</i> mg/L EC50 |
| Urea | > 10000: 192 h <i>Scenedesmus quadricauda</i> mg/L EC50 | 16200 - 18300: 96 h <i>Poecilia reticulata</i> mg/L LC50 | 3910: 48 h <i>Daphnia magna</i> mg/L EC50 Static |

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

| Ingredients | LOGPOW |
|---|--------|
| Ammonium Nitrate; NH ₄ NO ₃ | -3.1 |
| Urea | -1.59 |

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data 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:**

Not regulated

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: 14.4 | Not regulated |
| Packing group: 14.5 | Not regulated |
| Environmental Hazard 14.6 | Not regulated |
| Special Provisions | None |

IATA

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

Section 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

National regulationsBelgium

| Component | Belgium - Major Accidents - Qualifying Quantities for Safety Reporting | Belgium - Major Accidents - Qualifying Quantities for Accident Prevention |
|---|---|--|
| Ammonium Nitrate; NH ₄ NO ₃ 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 Not regulated

France

ICPE Classified installation: article 1331

Germany

Gefahrstoffverordnung (Germany) TRGS 511 C III
 LGK (Germany) 5.1C
 Water Endangering Class (WGK): 1 (Everris classification)

| Component | German WGK Section |
|--|--------------------|
| Potassium sulphate; K ₂ SO ₄ 7778-80-5 (25 - 40%) | class 1 |

| | |
|---|---------|
| Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2 (25 - 40%) | class 1 |
| Magnesium oxide; MgO 1309-48-4 (1 - 5%) | class 1 |
| Calcium Carbonate; CaCO ₃ 471-34-1 (0.1 - 1%) | class 0 |
| Urea 57-13-6 (0.1 - 1%) | class 1 |
| Calcium fluoride; CaF ₂ 7789-75-5 (0.1 - 1%) | class 1 |

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

H319 - Causes serious eye irritation
H272 - May intensify fire; oxidizer
H318 - Causes serious eye damage

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

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End of Safety Data Sheet