

# 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:

Agromaster FGO 19-5-20+4MgO

Product Code

50730225EA

### 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 Potassium sulphate;  $K_2SO_4$

EUH204 - Contains isocyanates. May produce an allergic reaction

#### 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 |
|----------------------------------------------------|-----------|-----------|----------|-----------------------------------------------------------------|---------------------------|
| Urea                                               | 200-315-5 | 57-13-6   | 40 - 65% | Not classified                                                  | 01-2119463277-33          |
| Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> | 231-915-5 | 7778-80-5 | 25 - 40% | Eye Dam. 1 (H318)                                               | 01-2119489441-34          |
| Calcium sulfate anh; CaSO <sub>4</sub>             | 231-900-3 | 7778-18-9 | 1 - 5%   | Not classified                                                  | no data available         |

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>                 | 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. |
| <b>Skin Contact:</b>               | If a person feels unwell or symptoms of skin irritation appear, consult a physician. Rinse with plenty of water.                                                                    |
| <b>Eye Contact:</b>                | Rinse eyes with water as a precaution. If eye irritation persists, consult a specialist.                                                                                            |
| <b>Ingestion:</b>                  | If conscious, drink plenty of water. Do NOT induce vomiting. Rinse mouth. Consult a physician if necessary.                                                                         |
| <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

|                  |                              |
|------------------|------------------------------|
| <b>Symptoms:</b> | None under normal processing |
|------------------|------------------------------|

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

|                            |                               |
|----------------------------|-------------------------------|
| <b>Notes to Physician:</b> | 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.

LGK (Germany)

Packaging Materials:

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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

|                                                        |                                                                                    |
|--------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Urea</b>                                            |                                                                                    |
| 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<br>STEL: 45 µg Hg/g Creatinine                          |
| <b>Potassium sulphate; K<sub>2</sub>SO<sub>4</sub></b> |                                                                                    |
| 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                                                           |
| <b>Calcium sulfate anh; CaSO<sub>4</sub></b>           |                                                                                    |
| Austria                                                | STEL 10 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>                              |
| Australia TWA                                          | 10 mg/m <sup>3</sup> TWA inhalable dust                                            |
| Belgium - 8 Hr TWA                                     | 10 mg/m <sup>3</sup> TWA                                                           |
| Bulgaria - Occupational Exposure Limits - TWAs         | 10.0 mg/m <sup>3</sup> TWA                                                         |
| France - Occupational Exposure Limits - 8 Hour VMEs    | TWA: 10 mg/m <sup>3</sup>                                                          |
| German mak                                             | TWA: 1.5 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>TWA: 6 mg/m <sup>3</sup> |
| Hungary - Occupational Exposure Limits - TWAs          | 6 mg/m <sup>3</sup> TWA                                                            |
| Ireland                                                | TWA: 10 mg/m <sup>3</sup>                                                          |
| Latvia - Occupational Exposure Limits - TWAs           | 4 mg/m <sup>3</sup> TWA (hydrogenated)                                             |

|                                          |                           |
|------------------------------------------|---------------------------|
| Portugal                                 | TWA: 10 mg/m <sup>3</sup> |
| Spain OEL - Time Weighted Average (TWA): | TWA: 10 mg/m <sup>3</sup> |
| Switzerland                              | TWA: 3 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  
 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**

|                                      |                                                                 |
|--------------------------------------|-----------------------------------------------------------------|
| <b>Physical State:</b>               | Solid                                                           |
| <b>Appearance:</b>                   | granules                                                        |
| <b>Color:</b>                        | brown, grey, white.                                             |
| <b>Odor:</b>                         | Not significant                                                 |
| <b>pH:</b>                           | No information 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 information available                                        |
| <b>Explosive Properties:</b>         | Doesn't present explosion hazard. Based on data of ingredients. |

**9.2. Other information**

|                      |                            |
|----------------------|----------------------------|
| <b>Bulk density:</b> | no data available          |
| <b>Bulk Density:</b> | 974-1124 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:**

|                                |                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------|
| <b>Inhalation:</b>             | May cause irritation of respiratory tract.                                      |
| <b>Eye Contact:</b>            | Causes serious eye damage.                                                      |
| <b>Skin Contact:</b>           | May cause irritation.                                                           |
| <b>Ingestion:</b>              | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| <b>Unknown Acute Toxicity:</b> | 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): 15,673.00 mg/kg

**Component Information:**

| Ingredients                                        | LD50 Oral            | LD50 Dermal | LC50 Inhalation |
|----------------------------------------------------|----------------------|-------------|-----------------|
| Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> | = 6600 mg/kg ( Rat ) |             |                 |
| Calcium sulfate anh; CaSO <sub>4</sub>             | > 3000 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.

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

| Ingredients                                        | Algae/aquatic plants                             | Fish                                                                                                                                         | Crustacea                                 |
|----------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 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 |
| Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> | 2900: 72 h Desmodesmus subspicatus mg/L EC50     | 3550: 96 h Lepomis macrochirus mg/L LC50 static 510 - 880: 96 h Pimephales promelas mg/L LC50 static 653: 96 h Lepomis macrochirus mg/L LC50 | 890: 48 h Daphnia magna mg/L EC50         |

|                                        |  |                                                                                                               |  |
|----------------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|
| Calcium sulfate anh; CaSO <sub>4</sub> |  | 2980: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 1970: 96 h <i>Pimephales promelas</i> mg/L LC50 static |  |
|----------------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

| Ingredients | LOGPOW |
|-------------|--------|
| 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 Applicable

**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<br>14.6 | Not regulated |
| 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****National regulations**BelgiumDenmark

|                         |               |
|-------------------------|---------------|
| Danish Sikkerhedsgruppe | Not regulated |
|-------------------------|---------------|

France

|      |               |
|------|---------------|
| ICPE | Not regulated |
|------|---------------|

Germany

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

| Component                                                                    | German WGK Section |
|------------------------------------------------------------------------------|--------------------|
| Urea<br>57-13-6 ( 40 - 65% )                                                 | class 1            |
| Potassium sulphate; K <sub>2</sub> SO <sub>4</sub><br>7778-80-5 ( 25 - 40% ) | class 1            |
| Calcium sulfate anh; CaSO <sub>4</sub><br>7778-18-9 ( 1 - 5% )               | 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**

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. 453/2010. Regulation (EC) No 1272/2008.

**Prepared by:**

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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**