



# Safety Data Sheet

Issue Date: no data available

Revision Date: 10-Jun-2015

Version: 1.02

## 1. IDENTIFICATION

**Product Identifier:**

**Product Name:** Uni-Mix 11-5-11  
**Product Number(s):** G98446  
**Formula No.:** S16332

**Recommended Use of the Chemical and Restrictions on Use:**

**Description:** General Fertilizer Product

**Company:**

Everris NA Inc.  
P.O. Box 3310  
Dublin, OH 43016

**24-HOUR EMERGENCY TELEPHONE NUMBERS:**

CHEMTREC (U.S.): 1-800-424-9300  
CHEMTREC (International): 1-703-527-3887  
Non-Emergency Calls: 1-800-492-8255

## 2. HAZARD(S) IDENTIFICATION

**OSHA Regulatory Status:**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

**Not Hazardous:**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Label Elements:**

### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance:** Prills and powder

**Physical State:** Solid

**Odor:**

Fertilizer

**Hazards Not Otherwise Classified (HNOC):**

**Other Information:**

- Causes mild skin irritation
- Toxic to aquatic life with long lasting effects
- Toxic to aquatic life

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients                                       | CAS-No    | Weight % | Trade Secret |
|---------------------------------------------------|-----------|----------|--------------|
| Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> | 6484-52-2 | 20-40    | *            |

|                                                                         |           |       |   |
|-------------------------------------------------------------------------|-----------|-------|---|
| Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>                      | 7778-80-5 | 10-20 | * |
| Di ammonium phosphate; (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub> | 7783-28-0 | 5-10  | * |
| Iron sulphate; FeSO <sub>4</sub> ·1H <sub>2</sub> O                     | 7720-78-7 | 5-10  | * |
| Magnesium oxide; MgO                                                    | 1309-48-4 | 1-5   | * |
| Manganese sulphate; MnSO <sub>4</sub> ·1H <sub>2</sub> O                | 7785-87-7 | <1    | * |
| Copper sulphate anh; CuSO <sub>4</sub>                                  | 7758-98-7 | <1    | * |
| Zinc Sulfate anh; ZnSO <sub>4</sub>                                     | 7733-02-0 | <1    | * |

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST-AID MEASURES

##### First Aid Measures:

- Eye Contact:** If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
- Skin Contact:** If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
- Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

##### Indication of Any Immediate Medical Attention and Special Treatment Needed:

**Notes to Physician:** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media:** Water spray.
- Unsuitable extinguishing media:** High volume water jet.
- Specific hazards:** Dust at sufficient concentrations may form explosive mixtures with air.
- Hazardous Combustion Products:** Ammonia and toxic metal oxides may be produced.

##### Explosion Data:

**Sensitivity to Mechanical Impact:**

no data available.

**Sensitivity to Static Discharge:**

no data available.

**Special Protective Equipment for Firefighters:** In the event of fire, wear self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal Precautions, Protective Equipment and Emergency Procedures:

**Personal Precautions:** Wear suitable protective clothing. Avoid dust formation.

**Environmental Precautions:** Prevent product from entering drains. Avoid subsoil penetration.

**Methods and Material for Containment and Cleanup:**

**Methods for containment:** Vacuum or sweep up material and place in a disposal container.

**Methods for Cleanup:** If material is uncontaminated, collect and reuse as recommended for product. If material is contaminated, put in appropriate container and dispose.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:**

**Handling:** Avoid container breakage. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams or ponds.

**Conditions for Safe Storage, Including any Incompatibilities:**

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Do not contaminate water, food, or feed by storage or disposal.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:**

**Exposure Guidelines:**

| Ingredients                                                  | CAS-No    | ACGIH:                    | OSHA:                    | IDLH:                         |
|--------------------------------------------------------------|-----------|---------------------------|--------------------------|-------------------------------|
| Ammonium Nitrate; $\text{NH}_4\text{NO}_3$                   | 6484-52-2 | N.A.                      | N.A.                     | Not Listed                    |
| Potassium sulphate; $\text{K}_2\text{SO}_4$                  | 7778-80-5 | Not Listed                | Not Listed               | Not Listed                    |
| Di ammonium phosphate; $(\text{NH}_4)_2\text{HPO}_4$         | 7783-28-0 | Not Listed                | Not Listed               | Not Listed                    |
| Iron sulphate; $\text{FeSO}_4 \cdot \text{H}_2\text{O}$      | 7720-78-7 | 1 mg/m <sup>3</sup> TWA   | Not Listed               | Not Listed                    |
| Magnesium oxide; $\text{MgO}$                                | 1309-48-4 | 10 mg/m <sup>3</sup> TWA  | 15 mg/m <sup>3</sup> TWA | 750 mg/m <sup>3</sup> IDLH    |
| Manganese sulphate; $\text{MnSO}_4 \cdot \text{H}_2\text{O}$ | 7785-87-7 | 0.1 mg/m <sup>3</sup> TWA | Not Listed               | 500 mg/m <sup>3</sup> IDLH Mn |
| Copper sulphate anh; $\text{CuSO}_4$                         | 7758-98-7 | 1 mg/m <sup>3</sup> TWA   | Not Listed               | 100 mg/m <sup>3</sup> IDLH Cu |
| Zinc Sulfate anh; $\text{ZnSO}_4$                            | 7733-02-0 | Not Listed                | Not Listed               | Not Listed                    |

**Appropriate Engineering Controls:**

**Engineering Measures to Reduce Exposure:** Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

**Individual Protection Measures, Such as Personal Protective Equipment:**

**Eye/Face Protection:** Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses.

**Skin and Body Protection:** If skin irritation occurs, use natural rubber gloves, durable cloth or impervious rubber gloves if contact with product is possible.

**Respiratory Protection:** If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection, e.g., NIOSH/MSHA approved respirator for dusts, mists, and fumes.

**General hygiene considerations:** Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

|                        |               |                    |                          |
|------------------------|---------------|--------------------|--------------------------|
| <b>Physical State:</b> | Solid         | <b>Appearance:</b> | Prills and powder        |
| <b>Color:</b>          | Multi-colored | <b>Odor</b>        | No information available |
| <b>Odor:</b>           | Fertilizer    | <b>Threshold:</b>  |                          |

| <u>Property</u>               | <u>Values</u>            | <u>Remarks: • Method</u> |
|-------------------------------|--------------------------|--------------------------|
| pH:                           | No information available |                          |
| Melting Point/Freezing Point: | No information available |                          |
| Boiling Point/Range:          | No information available |                          |
| Flash Point:                  | No information available |                          |
| Evaporation Rate:             | No information available |                          |
| Flammability (solid, gas):    | No information available |                          |
| Flammability Limits in Air:   |                          |                          |
| Upper Flammability Limit:     | No information available |                          |
| Lower Flammability Limit:     | No information available |                          |
| Vapor Pressure:               | No information available |                          |
| Vapor Density:                | No information available |                          |
| Specific Gravity:             | No information available |                          |
| Solubility:                   | Highly soluble (>80%)    |                          |
| Solubility in other Solvents: | No information available |                          |
| Partition Coefficient:        | No information available |                          |
| Autoignition Temperature:     | No information available |                          |
| Decomposition Temperature:    | No information available |                          |
| Kinematic Viscosity:          | No information available |                          |
| Dynamic Viscosity:            | No information available |                          |
| Explosive Properties:         | No information available |                          |
| Oxidizing Properties:         | No information available |                          |

Other Information:

|                          |                          |
|--------------------------|--------------------------|
| <b>Softening Point:</b>  | No information available |
| <b>Molecular Weight:</b> | No information available |
| <b>VOC Content (%):</b>  | No information available |
| <b>Density:</b>          | No information available |
| <b>Bulk density:</b>     | No information available |

**10. STABILITY AND REACTIVITY**

|                                                   |                                                                                                                                                                                                                                        |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Reactivity:</u></b>                         | Stable under normal conditions                                                                                                                                                                                                         |
| <b><u>Chemically Stable:</u></b>                  | yes.                                                                                                                                                                                                                                   |
| <b><u>Conditions to Avoid:</u></b>                | Extreme heat. Strong oxidizing agents. Contact with strong alkalies, oxidizers, and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminum, magnesium, and chlorine compounds. |
| <b><u>Materials to avoid</u></b>                  | Strong acids, bases, oxidizers, and reducing agents.                                                                                                                                                                                   |
| <b><u>Hazardous Decomposition Products:</u></b>   | Combustion may produce irritating gases and vapors. Toxic metal oxides may be produced.                                                                                                                                                |
| <b><u>Possibility of Hazardous Reactions:</u></b> | Poses little or no immediate hazard.                                                                                                                                                                                                   |

**11. TOXICOLOGICAL INFORMATION**

**Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):**

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| <b>Eye effects:</b>  | May cause eye irritation with susceptible persons           |
| <b>Skin effects:</b> | May cause skin irritation                                   |
| <b>Ingestion:</b>    | Health injuries are not known or expected under normal use. |
| <b>Inhalation:</b>   | Health injuries are not known or expected under normal use. |

**Component Information:**

| Ingredients                                                                             | LD50 Oral            | LD50 Dermal             | LC50 Inhalation         |
|-----------------------------------------------------------------------------------------|----------------------|-------------------------|-------------------------|
| Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub><br>6484-52-2                          | = 2217 mg/kg ( Rat ) | -                       | > 88.8 mg/L ( Rat ) 4 h |
| Potassium sulphate; K <sub>2</sub> SO <sub>4</sub><br>7778-80-5                         | = 6600 mg/kg ( Rat ) | -                       | -                       |
| Di ammonium phosphate;<br>(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub><br>7783-28-0 | = 6500 mg/kg ( Rat ) | > 7950 mg/kg ( Rabbit ) | -                       |
| Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O<br>7720-78-7                        | = 500 mg/kg ( Rat )  | -                       | -                       |
| Manganese sulphate;<br>MnSO <sub>4</sub> +1H <sub>2</sub> O<br>7785-87-7                | = 782 mg/kg ( Rat )  | -                       | -                       |
| Copper sulphate anh; CuSO <sub>4</sub><br>7758-98-7                                     | = 300 mg/kg ( Rat )  | = 1000 mg/kg ( Rabbit ) | -                       |
| Zinc Sulfate anh; ZnSO <sub>4</sub><br>7733-02-0                                        | = 500 mg/kg ( Rat )  | -                       | -                       |

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

|                          |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| <b>Sensitization:</b>    | No information available                                                                 |
| <b>Mutagenic effects</b> | No information available.                                                                |
| <b>Carcinogenicity:</b>  | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Ingredients                       | ACGIH - Carcinogens | IARC: | NTP Report on Carcinogens List - | OSHA |
|-----------------------------------|---------------------|-------|----------------------------------|------|
| Magnesium oxide; MgO<br>1309-48-4 | A4                  | -     | -                                | -    |

|                                 |                           |
|---------------------------------|---------------------------|
| <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. |

**Numerical Measures of Toxicity - Product Information:**

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

|                         |                          |
|-------------------------|--------------------------|
| <b>ATEmix (oral):</b>   | 8929 mg/kg               |
| <b>LD50/oral:</b>       | No information available |
| <b>LD50/dermal:</b>     | No information available |
| <b>LC50/inhalation:</b> | No information available |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

|                                  |                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------|
| <b>Unknown Aquatic Toxicity:</b> | 28.12% of the mixture consists of component(s) of unknown hazards to the aquatic environment |
|----------------------------------|----------------------------------------------------------------------------------------------|

|                             |                                                  |
|-----------------------------|--------------------------------------------------|
| <b>Ecotoxicity effects:</b> | Toxic to aquatic life with long lasting effects. |
|-----------------------------|--------------------------------------------------|

|                                       |                  |
|---------------------------------------|------------------|
| <b>Persistence and degradability:</b> | Degrades slowly. |
|---------------------------------------|------------------|

| Ingredients                                                    | LOGPOW |
|----------------------------------------------------------------|--------|
| Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub><br>6484-52-2 | -3.1   |

**Mobility:** Water contaminating.

**Additional ecological information:** Contains Molybdenum (Mo). The application of materials containing Molybdenum (Mo) may result in forage crops containing levels of Molybdenum (Mo) which are toxic to ruminant animals. Do not contaminate water by cleaning of equipment or disposal of wastes.

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods:

**Disposal of Wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging:** Do not reuse container.

### 14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

|                   |               |
|-------------------|---------------|
| DOT (Land)        | Not regulated |
| DOT (AIR)         | Not regulated |
| DOT (Vessel)      | Not regulated |
| IATA (Air)        | Not regulated |
| IMO/IMDG (Vessel) | Not regulated |

### 15. REGULATORY INFORMATION

#### Federal Regulations:

##### SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### SARA 311/312 Hazard Categories:

|                                   |    |
|-----------------------------------|----|
| Acute health hazard               | No |
| Chronic Health Hazard             | No |
| Fire hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

##### CWA (Clean Water Act):

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Ingredients | CWA - Reportable Quantities | CWA - Toxic Pollutants | Clean Water Act - Priority Pollutants | Clean Water Act - Hazardous Substances |
|-------------|-----------------------------|------------------------|---------------------------------------|----------------------------------------|
|-------------|-----------------------------|------------------------|---------------------------------------|----------------------------------------|

|                                                                  |   |   |   |         |
|------------------------------------------------------------------|---|---|---|---------|
| Iron sulphate; FeSO <sub>4</sub> ·1H <sub>2</sub> O<br>7720-78-7 | - | - | - | Present |
| Copper sulphate anh;<br>CuSO <sub>4</sub><br>7758-98-7           | - | - | - | Present |
| Zinc Sulfate anh; ZnSO <sub>4</sub><br>7733-02-0                 | - | - | - | Present |

**CERCLA:**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Ingredients                                                      | CERCLA/SARA 313                     | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|------------------------------------------------------------------|-------------------------------------|----------------|--------------------------|
| Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub><br>6484-52-2   | Not listed                          | -              | --                       |
| Iron sulphate; FeSO <sub>4</sub> ·1H <sub>2</sub> O<br>7720-78-7 | 1000 lb final RQ<br>454 kg final RQ | -              | --                       |
| Copper sulphate anh; CuSO <sub>4</sub><br>7758-98-7              | 10 lb final RQ<br>4.54 kg final RQ  | -              | --                       |
| Zinc Sulfate anh; ZnSO <sub>4</sub><br>7733-02-0                 | 1000 lb final RQ<br>454 kg final RQ | -              | --                       |

**State Regulations (RTK):****California Proposition 65:****U.S. State Right-to-Know Regulations:****U.S. EPA Label information:****EPA Pesticide Registration Number:**

not applicable

**16. OTHER INFORMATION**

**NFPA:** Health: 1 Flammability: 0 Reactivity: 0

**HMIS:** Health: 1 Flammability: 0 Reactivity: 0

**Revision Date:** 10-Jun-2015

**Revision Note:**

**Reason for revision:** None

**Disclaimer**

This information contained herein is, to the best of Everris' knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Everris shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Everris shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

End of Safety Data Sheet