



# MATERIAL SAFETY DATA SHEET

Date stamp: 03-Jul-2013

MSDS Ref. No.: E90250

Revision Number: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Nursery Mix 23-4-8 8-9M  
**Description:** Controlled Release Fertilizer

### Company

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

**Formula No.:** S15832

**Product Number(s):** E90250

### 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. Hazards Identification

### Labelling

**Signal Word:** CAUTION

### precautionary statements

May cause eye/skin irritation. Do not ingest. Do not inhale. Keep out of reach of children and domestic animals.

### Potential Health Effects

**Eye contact:** Contact with eyes may cause irritation.

**Skin contact:** Substance may cause slight skin irritation.

**Ingestion:** Considered practically non-toxic. Possible gastrointestinal tract irritation.

**Inhalation:** May cause irritation of respiratory tract.

**Aggravated Medical Conditions:** Inhalation may aggravate asthma.

**Principle routes of exposure:** skin, Inhalation, Ingestion

## 3. Composition/information on Ingredients

Ingredients	CAS-No	Weight %
Ammonium Nitrate, NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	40 - 60
Potassium sulphate, K <sub>2</sub> SO <sub>4</sub>	7778-80-5	30 - 40
Di ammonium phosphate, (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	7783-28-0	15-30
Calciumphosphate, Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	7758-87-4	15-30
Ammonium phosphate (US)	7722-76-1	15-30
Coating	PROPRIETARY	15-30
Urea	57-13-6	10 - 30
Iron Oxide, Fe <sub>2</sub> O <sub>3</sub>	1309-37-1	0.1 - 1
Magnesium oxide, MgO	1309-48-4	0.1 - 1
Magnesium sulphate anhydrous, MgSO <sub>4</sub>	7487-88-9	0.1 - 1
Manganese sulphate, MnSO <sub>4</sub> +1H <sub>2</sub> O	7785-87-7	0.1 - 1
Zinc Sulfate Anhydrous	7733-02-0	0.1 - 1
Zinc oxide, ZnO	1314-13-2	0.1 - 1
Copper sulphate anh; CuSO <sub>4</sub>	7758-98-7	< 0.1
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	< 0.1
Manganese Oxide, MnO	1344-43-0	< 0.1
Copper Oxide, CuO	1317-38-0	-

## 4. First aid measures

### Eye contact:

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 eye. Call a poison control center or doctor for treatment advice.

**Skin contact:** 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.

**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.

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**5. Fire-fighting measures**

**Flammable properties:** Decomposes on heating. May burn under fire conditions.  
**Suitable extinguishing media:** Water.  
**Explosion potential:** Dust clouds may be explosive.  
**Hazardous combustion products:** Combustion can produce toxic fumes and irritating gases.  
**Fire fighting procedures:** Select appropriate method to surround and extinguish fire.  
**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

**6. Accidental release measures**

**Personal Precautions:** Wear personal protective equipment.  
**Environmental Precautions:** Prevent product from entering drains.  
**Methods for containment:** Use good housekeeping practices. Clean up promptly by sweeping or vacuum.  
**Methods for cleaning up:** If material is uncontaminated, collect and reuse as recommended for product.

**7. Handling and Storage**

**Handling:** Avoid container breakage.

**Storage:** Store in a cool, dry area away from incompatible materials and heat sources.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ingredients	CAS-No	ACGIH:	OSHA:
Ammonium Nitrate, NH4NO3	6484-52-2	N.A.	N.A.
Potassium sulphate, K2SO4	7778-80-5	Not Listed	Not Listed
Di ammonium phosphate, (NH4)2HPO4	7783-28-0	Not Listed	Not Listed
Calciumphosphate, Ca3(PO4)2	7758-87-4	Not Listed	Not Listed
Ammonium phosphate (US)	7722-76-1	Not Listed	Not Listed
Coating	PROPRIETARY	Not Listed	Not Listed
Urea	57-13-6	Not Listed	Not Listed
Iron Oxide, Fe2O3	1309-37-1	5 mg/m³ TWA	10 mg/m³ TWA 15 mg/m³ TWA Rouge 5 mg/m³ TWA Rouge
Magnesium oxide, MgO	1309-48-4	10 mg/m³ TWA	15 mg/m³ TWA
Magnesium sulphate anhydrous, MgSO4	7487-88-9	Not Listed	Not Listed
Manganese sulphate, MnSO4+1H2O	7785-87-7	Not Listed	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	Not Listed	Not Listed
Zinc oxide, ZnO	1314-13-2	2 mg/m³ TWA	5 mg/m³ TWA 15 mg/m³ TWA
Copper sulphate anh; CuSO4	7758-98-7	Not Listed	Not Listed
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	Not Listed	Not Listed
Manganese Oxide, MnO	1344-43-0	Not Listed	Not Listed
Copper Oxide, CuO	1317-38-0	Not Listed	Not Listed

**Engineering Controls** Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

**Personal protective equipment**

**Eye/face Protection**

Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur.

**Skin and body protection:**

Wear suitable protective clothing if contact is anticipated during manufacturing. Impervious gloves.

**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**

<b>Physical state</b>	Solid	<b>Color:</b>	Tan
<b>Bulk density:</b>	55-65 lbs/cu.ft.	<b>Flash Point:</b>	not applicable
<b>Appearance:</b>	granulate	<b>Odor:</b>	oily

**10. Stability and Reactivity**

<b>Chemically Stable:</b>	yes.
<b>Conditions to Avoid</b>	Damp or wet conditions. Take precautionary measures against static discharges. Extreme heat.
<b>Materials to avoid</b>	Combustible material. Strong bases. Oxidizing agent. Reducing agents.
<b>Hazardous decomposition products:</b>	Toxic fumes and gases may be generated. Metal oxides possible.
<b>Possibility of Hazardous Reactions</b>	Poses little or no immediate hazard.

**11. Toxicological Information**

**Acute Toxicity**

**Eye effects:** Contact with eyes may cause irritation  
**Skin effects:** May cause skin irritation and/or dermatitis

**Chronic Toxicity**

**Carcinogenic effects:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Ingredients	NTP:	IARC:	OSHA:
Iron Oxide, Fe2O3	Not Listed	3	Not Listed

**General information** Prolonged or repeated exposure may irritate eyes and skin  
**Ingestion:** Health injuries are not known or expected under normal use.  
**Inhalation** Health injuries are not known or expected under normal use.

**12. Ecological Information**

<b>Ecotoxicity effects:</b>	No data is available on the product itself.
<b>Persistence and degradability:</b>	Inherently biodegradable. Non-persistent.
<b>Bioaccumulative potential:</b>	Does not bioaccumulate.
<b>Mobility:</b>	Slightly water contaminating.
<b>Aquatic toxicity:</b>	May be beneficial to plant life.
<b>Additional ecological information:</b>	Do not apply directly to lakes, streams, or ponds.

**13. Disposal Considerations**

**Waste Disposal Methods:** Apply as fertilizer to field. Dispose of in accordance with local regulations and national regulations.  
**Contaminated packaging:** Do not re-use empty containers. If empty, place in trash or offer for recycling if available.

**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.

<b>DOT (Land)</b>	Not DOT regulated
<b>DOT (AIR)</b>	UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII
<b>DOT (Vessel)</b>	UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII

<b>15. Regulatory information</b>			
<b>Ingredients</b>	<b>CAS-No</b>	<b>CERCLA/SARA 313</b>	<b>CERCLA/SARA 302</b>
Ammonium Nitrate, NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	Not listed	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	1000 lb final RQ 454 kg final RQ	Not Listed
Copper sulphate anh; CuSO <sub>4</sub>	7758-98-7	10 lb final RQ 4.54 kg final RQ	Not Listed

**General information** Contact local authorities for disposal of large quantities of product.

### **16. Other information**

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

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

**Hazard Rating:** 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe

**General comment:** This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

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