



MATERIAL SAFETY DATA SHEET

Date stamp: 17-Jan-2013

MSDS Ref. No.: E99720

Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Peters Professional® 24-8-16 Foliage Special
Description: Water Soluble Fertilizer

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

Formula No.: S12900
Product Number(s): E99720

2. HAZARDS IDENTIFICATION

Labelling

Signal word: WARNING

Precautionary Statements

May be harmful if swallowed or inhaled. May cause eye/skin irritation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Do not ingest. Wash thoroughly after handling. Keep out of reach of children.

Potential health effects

Eye contact: Contact with eyes may cause irritation.

Skin contact: May cause skin irritation in susceptible persons.

Ingestion: Possible gastrointestinal tract irritation.

Inhalation: May cause irritation of respiratory tract.

Aggravated Medical Conditions: Inhalation of dust/mist may aggravate asthma. Pre-existing dermatitis or sores.

Principle routes of exposure: Skin, Inhalation, Ingestion, Eyes

Target organ effects: Irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS-No | Weight % |
|--|------------|----------|
| Ammonium Nitrate, NH ₄ NO ₃ | 6484-52-2 | 10-30 |
| Potassium Nitrate, KNO ₃ | 7757-79-1 | 10-30 |
| Urea (Reach 01-2119463277-33) | 57-13-6 | 10-30 |
| Potassium phosphate, KH ₂ PO ₄ | 7778-77-0 | 7-13 |
| Ammonium sulphate, (NH ₄) ₂ SO ₄ | 7783-20-2 | 5-10 |
| Ammonium phosphate | 7722-76-1 | 3-7 |
| Manganese sulphate, MnSO ₄ | 7785-87-7 | 1-5 |
| Magnesium sulphate anhydrous, MgSO ₄ | 7487-88-9 | 0.1-1 |
| Iron EDTA, Fe-EDTA | 15708-41-5 | 0.1-1 |
| Manganese-EDTA | 15375-84-5 | 0.23 |
| Zinc-EDTA, Zn-EDTA | 14025-21-9 | 0.1-1 |
| Copper-EDTA, Cu-EDTA | 14025-15-1 | 0.1-1 |
| Boric Acid, H ₃ BO ₃ | 10043-35-3 | <0.1 |
| Ammonium Heptamolybdate Tetrahydrate, H ₂₄ Mo ₇ N ₆ O ₂₄ · 4H ₂ O | 12054-85-2 | <0.1 |

4. 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.

Revision date:

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| Ingestion: | Call a physician or Poison Control Centre immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting without medical advice. Never 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 mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. |

5. FIRE-FIGHTING MEASURES

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|---|---|
| Flammable properties: | Decomposes on heating. |
| Suitable extinguishing media: | Water spray, carbon dioxide, dry chemical, chemical foam |
| Explosion potential: | Dust at sufficient concentrations may form explosive mixtures with air. |
| Hazardous combustion products: | Thermal decomposition can lead to release of irritating gases and vapours.. |
| 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

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| Personal precautions: | Avoid contact with skin, eyes and clothing. |
| Environmental precautions: | Prevent product from entering drains. |
| Methods for containment: | Vacuum or sweep up material and place in a disposal container. |
| Methods for cleaning up: | If material is uncontaminated, collect and reuse as recommended for product. If material is contaminated, put in appropriate container and dispose. Flush with water. |

7. HANDLING AND STORAGE

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams or ponds.

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

| Ingredients | ACGIH: | OSHA: |
|--|--|---|
| Manganese-EDTA | Not Listed | Not Listed |
| Magnesium sulphate anhydrous, MgSO ₄ | Not Listed | Not Listed |
| Iron EDTA, Fe-EDTA | 1 mg/m ³ TWA | Not Listed |
| Potassium Nitrate, KNO ₃ | 10 mg/m ³ (8-hr TWA) 3 mg/m ³ (8-hr TWA) | 15 mg/m ³ (8-hr TWA) 5 mg/m ³ (8-hr TWA) |
| Ammonium Heptamolybdate Tetrahydrate, H ₂₄ Mo ₇ N ₆ O ₂₄ · 4H ₂ O | 0.5 mg/m ³ TWA 10 mg/m ³ TWA 3 mg/m ³ TWA | 15 mg/m ³ TWA total 5 mg/m ³ TWA |
| Zinc-EDTA, Zn-EDTA | Not Listed | Not Listed |
| Copper-EDTA, Cu-EDTA | Not Listed | Not Listed |
| Boric Acid, H ₃ BO ₃ | 2 mg/m ³ TWA | Not Listed |
| Manganese sulphate, MnSO ₄ | 0.2 mg/m ³ TWA | Not Listed |
| Potassium phosphate, KH ₂ PO ₄ | Not Listed | Not Listed |
| Ammonium Nitrate, NH ₄ NO ₃ | N.A. | N.A. |
| Ammonium sulphate, (NH ₄) ₂ SO ₄ | Not Listed | Not Listed |
| Ammonium phosphate | Not Listed | Not Listed |
| Urea (Reach 01-2119463277-33) | 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 Eyeface protection

Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses with side shields or goggles.

Skin and body protection: No special protective clothing is required under normal workplace conditions. If skin irritation occurs, use natural rubber gloves, durable cloth or impervious rubber gloves if contact with product is possible. After using product, remove clothing and wash before reuse.

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

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|------------------------|-------------------|--------------------|-----------------------|
| Physical State: | Solid | Color: | Blue |
| Bulk density: | 55-65 lbs./cu.ft. | Appearance: | Prills, Crystals |
| Odor: | Fertilizer | Solubility: | Highly soluble (>80%) |

10. STABILITY AND REACTIVITY

Chemically Stable: Yes.

Conditions to avoid Extreme heat. Contact with strong alkalis, oxidizers, and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminum, magnesium, and chlorine compounds.

Materials to avoid: Strong acids, bases, oxidizers, and reducing agents. Avoid contact with other chemicals. Fuels. Heavy metal salts.

Hazardous decomposition products: Combustion may produce irritating gases and vapors. Toxic metal oxides may be produced.

Possibility of hazardous reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50/oral: No information available
LD50/dermal: No information available
LC50/inhalation: No information available
Eye effects: Contact with eyes may cause irritation
Skin effects: May cause skin irritation in susceptible persons
Sensitization: No information available

Chronic toxicity

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

| Ingredients | NTP: | IARC: | OSHA: |
|--|------------|------------|------------|
| Manganese-EDTA | Not listed | Not listed | Not listed |
| Magnesium sulphate anhydrous, MgSO ₄ | Not listed | Not listed | Not listed |
| Iron EDTA, Fe-EDTA | Not listed | Not listed | Not listed |
| Potassium Nitrate, KNO ₃ | Not listed | Not listed | Not listed |
| Ammonium Heptamolybdate Tetrahydrate, H ₂₄ Mo ₇ N ₆ O ₂₄ · 4H ₂ O | Not listed | Not listed | Not listed |
| Zinc-EDTA, Zn-EDTA | Not listed | Not listed | Not listed |
| Copper-EDTA, Cu-EDTA | Not listed | Not listed | Not listed |
| Boric Acid, H ₃ BO ₃ | Not listed | Not listed | Not listed |
| Manganese sulphate, MnSO ₄ | Not listed | Not listed | Not listed |
| Potassium phosphate, KH ₂ PO ₄ | Not listed | Not listed | Not listed |
| Ammonium Nitrate, NH ₄ NO ₃ | Not listed | Not listed | Not listed |
| Ammonium sulphate, (NH ₄) ₂ SO ₄ | Not listed | Not listed | Not listed |
| Ammonium phosphate | Not listed | Not listed | Not listed |
| Urea (Reach 01-2119463277-33) | Not listed | Not listed | Not listed |

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation: May cause irritation of respiratory tract.
Target organ effects: Irritation.

12. ECOLOGICAL INFORMATION

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| Ecotoxicity effects: | May be toxic to aquatic organisms. |
| Persistence and degradability: | Degrades slowly. |
| Bioaccumulative potential: | Not determined. |
| Mobility: | Water contaminating. |
| Aquatic toxicity: | No ecological information is known on the product. |
| 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 sources when disposing of equipment washwaters. |

13. DISPOSAL CONSIDERATIONS

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| Waste Disposal Methods: | If empty, do not reuse container. Do not place product down any indoor or outdoor drain. Contaminated product should be disposed of in an approved landfill disposal facility in accordance with applicable Federal/ Provincial, and/or local regulations. |
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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 DOT regulated

15. REGULATORY INFORMATION

| Ingredients | CAS-No | CERCLA/SARA 313 | CERCLA/SARA 302 |
|--|------------|-----------------|-----------------|
| Manganese-EDTA | 15375-84-5 | Not Listed | Not Listed |
| Magnesium sulphate anhydrous, MgSO ₄ | 7487-88-9 | Not Listed | Not Listed |
| Iron EDTA, Fe-EDTA | 15708-41-5 | Not Listed | Not Listed |
| Potassium Nitrate, KNO ₃ | 7757-79-1 | Not Listed | Not Listed |
| Ammonium Heptamolybdate Tetrahydrate, H ₂₄ Mo ₇ N ₆ O ₂₄ · 4H ₂ O | 12054-85-2 | Not Listed | Not Listed |
| Zinc-EDTA, Zn-EDTA | 14025-21-9 | Not Listed | Not Listed |
| Copper-EDTA, Cu-EDTA | 14025-15-1 | Not Listed | Not Listed |
| Boric Acid, H ₃ BO ₃ | 10043-35-3 | Not Listed | Not Listed |
| Manganese sulphate, MnSO ₄ | 7785-87-7 | Not Listed | Not Listed |
| Potassium phosphate, KH ₂ PO ₄ | 7778-77-0 | Not Listed | Not Listed |
| Ammonium Nitrate, NH ₄ NO ₃ | 6484-52-2 | Not listed | Not Listed |
| Ammonium sulphate, (NH ₄) ₂ SO ₄ | 7783-20-2 | Not Listed | Not Listed |
| Ammonium phosphate | 7722-76-1 | Not Listed | Not Listed |
| Urea (Reach 01-2119463277-33) | 57-13-6 | Not Listed | Not Listed |

General Information Contact local authorities for disposal of large quantities of product.

16. OTHER INFORMATION

NFPA: Health: 2 Flammability: 0 Reactivity: 1

HMIS: Health: 2 Flammability: 0 Reactivity: 1

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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