



MATERIAL SAFETY DATA SHEET

Date stamp: 17-Jan-2013

MSDS Ref. No.: E99310

Revision Number: NOT AUTHORIZED

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Peters Professional 5-11-26 Hydroponic 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.: S12905
Product Number(s): E99310

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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 or spray mist. Do not ingest. Wash thoroughly after handling. Keep away from children.

Potential health effects

Eye contact: Contact with eyes may cause irritation.

Skin contact: May cause skin irritation in susceptible persons.

Ingestion: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Inhalation: Inhalation of aerosols may cause irritation to mucous membranes.

Aggravated Medical Conditions: Pre-existing dermatitis or sores. Inhalation may aggravate asthma.

Principle routes of exposure: Skin, Inhalation

Target organ effects: Irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %
Potassium Nitrate, KNO ₃	7757-79-1	30-60
Magnesium sulphate anhydrous, MgSO ₄	7487-88-9	30-60
Potassium phosphate, KH ₂ PO ₄	7778-77-0	10-30
Iron EDTA, Fe-EDTA	15708-41-5	1-5
Manganese-EDTA	15375-84-5	0.1-0.5
Boric Acid, H ₃ BO ₃	10043-35-3	0.1-0.5
Zinc-EDTA, Zn-EDTA	14025-21-9	0.1-0.5
Copper-EDTA, Cu-EDTA	14025-15-1	0.1-0.5
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: 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: Non-flammable. Contact with combustible material may cause fire.
Suitable extinguishing media: Water.
Unsuitable extinguishing media: Dry powder. Sand. 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..
Specific hazards: This material can provide oxygen for existing fires.
Fire fighting procedures: Select appropriate method to surround and extinguish fire. Flood with water to cool containers.
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
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: Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	ACGIH:	OSHA:
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
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)
Potassium phosphate, KH ₂ PO ₄	Not Listed	Not Listed
Magnesium sulphate anhydrous, MgSO ₄	Not Listed	Not Listed
Boric Acid, H ₃ BO ₃	2 mg/m ³ TWA	Not Listed
Copper-EDTA, Cu-EDTA	Not Listed	Not Listed
Iron EDTA, Fe-EDTA	1 mg/m ³ TWA	Not Listed
Manganese-EDTA	Not Listed	Not Listed
Zinc-EDTA, Zn-EDTA	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 Safety glasses with side shields or goggles.
Skin and body protection: Wear suitable protective clothing if contact is anticipated during manufacturing. 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

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Physical State:	Solid	Color:	White
Bulk density:	55-75 lbs/cu.ft.	Appearance:	Crystals
Odor:	Fertilizer	Solubility:	Highly soluble (>80%)

10. STABILITY AND REACTIVITY

Chemically Stable:	Stable under normal conditions.
Conditions to avoid	Extreme heat. Damp or wet conditions. Dust may form explosive mixture in air.
Materials to avoid:	Strong oxidising agents.
Hazardous decomposition products:	Combustion may produce irritating gases and vapors.
Possibility of hazardous reactions:	Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

- Eye effects:** May cause eye irritation with susceptible persons
Skin effects: May cause skin irritation in susceptible persons
Sensitization: May cause sensitization of susceptible persons

Chronic toxicity

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

Ingredients	NTP:	IARC:	OSHA:
Ammonium Heptamolybdate Tetrahydrate, H ₂₄ Mo ₇ N ₆ O ₂₄ · 4H ₂ O	Not listed	Not listed	Not listed
Potassium Nitrate, KNO ₃	Not listed	Not listed	Not listed
Potassium phosphate, KH ₂ PO ₄	Not listed	Not listed	Not listed
Magnesium sulphate anhydrous, MgSO ₄	Not listed	Not listed	Not listed
Boric Acid, H ₃ BO ₃	Not listed	Not listed	Not listed
Copper-EDTA, Cu-EDTA	Not listed	Not listed	Not listed
Iron EDTA, Fe-EDTA	Not listed	Not listed	Not listed
Manganese-EDTA	Not listed	Not listed	Not listed
Zinc-EDTA, Zn-EDTA	Not listed	Not listed	Not listed

General Information

Chronic exposure to nitrates may cause weakness, depression, headache, blood changes (anemia and methemoglobinemia), and kidney injury (nephritis)

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

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:	May be toxic to aquatic organisms.
Persistence and degradability:	Degrades slowly.
Bioaccumulative potential:	No information available.
Mobility:	Water contaminating.
Aquatic toxicity:	May be toxic to aquatic organisms.
Additional ecological information:	This product contains boron and should be used according to directions only, especially on crops sensitive to boron uptake. 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. Do not apply directly to lakes, streams, or ponds.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:	In accordance with local and national regulations.
Contaminated packaging:	In accordance with local and national regulations.

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
Ammonium Heptamolybdate Tetrahydrate, H ₂₄ Mo ₇ N ₆ O ₂₄ · 4H ₂ O	12054-85-2	Not Listed	Not Listed
Potassium Nitrate, KNO ₃	7757-79-1	Not Listed	Not Listed
Potassium phosphate, KH ₂ PO ₄	7778-77-0	Not Listed	Not Listed
Magnesium sulphate anhydrous, MgSO ₄	7487-88-9	Not Listed	Not Listed
Boric Acid, H ₃ BO ₃	10043-35-3	Not Listed	Not Listed
Copper-EDTA, Cu-EDTA	14025-15-1	Not Listed	Not Listed
Iron EDTA, Fe-EDTA	15708-41-5	Not Listed	Not Listed
Manganese-EDTA	15375-84-5	Not Listed	Not Listed
Zinc-EDTA, Zn-EDTA	14025-21-9	Not Listed	Not Listed

General Information Local authorities should be advised if significant spillages cannot be contained.

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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