



# MATERIAL SAFETY DATA SHEET

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MSDS Ref. No.: E99068

Revision Number: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Peters Professional® Liquid S.T.E.M.

**Description:** Liquid Fertilizer

**Company**

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

**Formula No.:** S15845

**Product Number(s):** E99068

**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

**Non-hazardous**

**Labelling**

**Signal Word:**

WARNING

**precautionary statements**

May be harmful if swallowed or inhaled. May cause eye/skin irritation. Keep out of reach of children.

**Potential Health Effects**

**Eye contact:**

Contact with eyes may cause irritation.

**Skin contact:**

May cause eye/skin irritation.

**Ingestion:**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**inhalation:**

May cause irritation of respiratory tract.

**Aggravated Medical Conditions:**

Inhalation of dust/mist may aggravate asthma.

## 3. Composition/information on Ingredients

Ingredients	CAS-No	Weight %
Iron EDTA; Fe-EDTA	15708-41-5	40 - 60
Water	7732-18-5	15-30
Manganese-EDTA	15375-84-5	15-30
Zinc-EDTA; Zn-EDTA	14025-21-9	5 - 10
Copper-EDTA; Cu-EDTA	14025-15-1	1 - 5
Boric Acid; H3BO3	10043-35-3	1 - 5
Ammonium Heptamolybdate Tetrahydrate, H24Mo7N6O24 · 4H2O	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**

<b>Flammable properties:</b>	Non-flammable.
<b>Suitable extinguishing media:</b>	Water spray, carbon dioxide, dry chemical, chemical foam.
<b>Fire fighting procedures:</b>	Select appropriate method to surround and extinguish fire. Use water spray to cool fire exposed surfaces.
<b>Special protective equipment for firefighters:</b>	In the event of fire, wear self-contained breathing apparatus.

**6. Accidental release measures**

<b>Personal Precautions:</b>	Wear personal protective equipment. Do not inhale dust/mist.
<b>Environmental Precautions:</b>	Prevent product from entering drains.
<b>Methods for containment:</b>	Absorb with inert non-combustible material and remove for disposal.
<b>Methods for cleaning up:</b>	Take up mechanically and collect in suitable container for disposal. Thoroughly ventilate and clean affected area.

**7. Handling and Storage**

**Handling:** Open container should be sealed. Keep away from heat, sources of ignition, and combustible materials. Keep away from incompatible materials and organic materials.

**Storage:** Keep containers tightly closed in a cool, well-ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ingredients	CAS-No	ACGIH:	OSHA:
Iron EDTA; Fe-EDTA	15708-41-5	Not Listed	Not Listed
Water	7732-18-5	Not Listed	Not Listed
Manganese-EDTA	15375-84-5	Not Listed	Not Listed
Zinc-EDTA; Zn-EDTA	14025-21-9	Not Listed	Not Listed
Copper-EDTA; Cu-EDTA	14025-15-1	Not Listed	Not Listed
Boric Acid; H3BO3	10043-35-3	2 mg/m <sup>3</sup> TWA	Not Listed
Ammonium Heptamolybdate Tetrahydrate, H24Mo7N6O24 · 4H2O	12054-85-2	0.5 mg/m <sup>3</sup> TWA	Not Listed

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

**Personal protective equipment**

<b>Eye/face Protection</b>	Safety glasses.
<b>Skin and body protection:</b>	Wear protective gloves. Wear suitable protective clothing.
<b>Respiratory Protection:</b>	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:** Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	liquid	<b>Color:</b>	dark brown
<b>Odor:</b>	No detectable odor	<b>pH:</b>	pH: 7.5 +/- 0.5 (1.0% w/v solution)

**10. STABILITY AND REACTIVITY**

<b>Chemically Stable:</b>	yes.
<b>Conditions to Avoid</b>	Extreme heat.
<b>Materials to avoid</b>	Nitrogen oxides (NOx).
<b>Hazardous decomposition products:</b>	No information available.
<b>Possibility of Hazardous Reactions</b>	Poses little or no immediate hazard.

**11. TOXICOLOGICAL INFORMATION**

### Acute Toxicity

**LD50/oral:** LD50>2000mg/kg

**Eye effects:** Slight irritation

### Chronic Toxicity

**Ingestion:**

Nausea, vomiting.

**Inhalation**

May cause irritation of respiratory tract.

**other information:**

This product should be handled with the care usual when dealing with chemicals.

## **12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects:**

No data is available on the product itself.

**Persistence and degradability:**

Degrades slowly.

**Mobility:**

No information available.

**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. This product contains boron and should be used according to directions only, especially on crops sensitive to boron uptake.

## **13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:**

Dispose of in accordance with local 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

**DOT (AIR)**

Not DOT regulated

**DOT (Vessel)**

Not DOT regulated

## **15. REGULATORY INFORMATION**

**General information**

Contact local authorities for disposal of large quantities of product.

## **16. OTHER INFORMATION**

**NFPA:**      **Health:** 2                      **Flammability:** 0                      **Reactivity:** 0

**HMIS:**      **Health:** 2                      **Flammability:** 0                      **Reactivity:** 0

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

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