

# MATERIAL SAFETY DATA SHEET

Date stamp: 01-Oct-2013 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:
Aggravated Medical Conditions:

May cause irritation of respiratory tract.

Inhalation of dust/mist may aggavate 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 be 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, preferabley by mouth-to-mouth, if possible. Call a poison control center or doctor for further

treatment advice.

Revision Date: 01-Oct-2013 Page 1 of 3

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MSDS Ref. No.: E99068

# 5. Fire-fighting measures

Flammable properties: Non-flammable.

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam.

Fire fighting procedures: Select appropriate method to surround and extinguish fire. Use water spray to cool fire exposed

surfaces

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. Do not inhale dust/mist.

**Environmental Precautions:** Prevent product from entering drains.

Methods for containment: Absorb with inert non-combustible material and remove for disposal.

Methods for cleaning up: 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/m³ TWA	Not Listed
Ammonium Heptamolybdate Tetrahydrate, H24Mo7N6O24 · 4H2O	12054-85-2	0.5 mg/m³ TWA	Not Listed

Engineering Controls

Use adequate ventilation to keep the airborne concentrations of this material below the recommended

exposure standard.

Personal protective equipment

Eve/face Protection Safety glasses.

**Skin and body protection:** Wear protective gloves. Wear suitable protective clothing.

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: Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately

after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid Color: dark brown

Odor: No detectable odor pH: pH: 7.5 +/- 0.5 (1.0% w/v solution)

# 10. STABILITY AND REACTIVITY

Chemically Stable: ye

Conditions to Avoid Extreme heat.

Materials to avoid Nitrogen oxides

Materials to avoid Nitrogen oxides (NOx).

Hazardous decomposition products: No information available.

Possibility of Hazardous Reactions Poses little or no immediate hazard.

# 11. TOXICOLOGICAL INFORMATION

Revision Date: 01-Oct-2013 Page 2 of 3

#### **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

MSDS Ref. No.: E99068

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)

DOT (AIR)

Not DOT regulated

Not DOT regulated

Not DOT regulated

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

Additional information: 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.

Revision Date: 01-Oct-2013 Page 3 of 3