



Safety Data Sheet

Last Revision Date 27-Nov-2024

Version: 2

1. IDENTIFICATION

Product identifier

Product Name: Peters Professional® Liquid S.T.E.M
Product Number(s): G99068
Formula No.: S15845

Description: Liquid Fertilizer

Recommended use of the chemical and restrictions on use

Restricted to professional users

Company:

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

2. HAZARD(S) IDENTIFICATION

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Reproductive Toxicity

Category 1B

Label Elements:

Danger

Hazard Statements:

May damage fertility or the unborn child



Appearance: aqueous solution

Physical state Liquid

Odor: No data available

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC): _____

Not applied

Other Information _____

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	Trade Secret
Copper-EDTA; Cu-EDTA	14025-15-1	1 - 5%	*
Boric acid; H ₃ BO ₃	10043-35-3	1 - 5%	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Description of 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: Call a poison control center or doctor for treatment advice. Take off contaminated clothing. Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

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 CENTER or doctor.

Ingestion: Call a physician or Poison Control Centre immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO₂). Dry chemical. Water spray. Chemical foam.

Unsuitable Extinguishing Media: High volume water jet.

Specific hazards: no data available.

Explosion Data:

Sensitivity to Mechanical Impact: no data available.
Sensitivity to Static Discharge: no data available.

Special Protective Equipment for Firefighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures _____

Personal Precautions: Wear personal protective equipment. Do not inhale dust/mist.

Environmental precautions: Prevent product from entering drains.

Methods and material for containment and cleaning up

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

Methods for Cleanup: Take up mechanically and collect in suitable container for disposal. Thoroughly ventilate and clean affected area.

7. HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA:	ACGIH:	IDLH:
Copper-EDTA; Cu-EDTA 14025-15-1	TWA: 1 mg/m ³ Cu dust and mist	-	1 mg/m ³ TWA	100 mg/m ³ IDLH Cu
Boric acid; H ₃ BO ₃ 10043-35-3	TWA: 2 mg/m ³ inhalable particulate matter STEL: 6 mg/m ³ inhalable particulate matter	-	2 mg/m ³ TWA	-

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash. Showers.

Individual protection measures, such as personal protective equipment

Eye/face Protection Wear safety glasses with side shields (or goggles).

Hand Protection Neoprene gloves.

Skin and body protection Lightweight protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Color: Brown
Appearance: aqueous solution
Odor: Ammonia

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	7.5 +/- 0.5 (1.0 w/v solution)	
Melting Point/Freezing Point:	Not applicable	
Boiling Point/Range:	No data available	
Flash Point:		
Evaporation Rate:	no data available	
Flammability (solid, gas):	No data available	
Flammability Limits in Air:		
Upper Flammability Limit:	No data available	
Lower Flammability Limit:	No data available	
Vapor Pressure:	No data available	
Vapour density	No data available	
Specific gravity	no data available	
Solubility:	no data available	
Solubility in other Solvents:	no data available	
Partition Coefficient:	no data available	
Autoignition Temperature:	No data available	
Hyphen	no data available	
Kinematic Viscosity:	No data available	
Dynamic Viscosity:	no data available	
Explosive Properties:	no data available	
Oxidizing Properties:	Not considered an oxidizer	

Other information

Softening Point: no data available
Molecular Weight: no data available
VOC content No data available
Density: no data available
Bulk density: no data available

10. STABILITY AND REACTIVITY

Reactivity:
 Stable under recommended storage conditions

Chemically Stable: Stable under recommended storage conditions.

Materials to avoid Nitrogen oxides (NOx).

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Possibility of Hazardous Reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.
Eye contact Specific test data for the substance or mixture is not available.
Skin Contact Specific test data for the substance or mixture is not available.
Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms no data available.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

Oral LD50 64,492.80 mg/kg
Dermal LD50 99,999.00
gas 99,999.00
Mist 99,999.00
Vapor 99,999.00

Unknown Acute Toxicity: no data available

LD50/oral: LD50>2000mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Copper-EDTA; Cu-EDTA 14025-15-1	-	-	> 5.3 mg/L (Rat) 4 h
Boric acid; H ₃ BO ₃ 10043-35-3	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.12 mg/L (Rat) 4 h

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

Skin corrosion/irritation no data available.

Serious eye damage/eye irritation no data available.

Respiratory or skin sensitization no data available.

Germ Cell Mutagenicity no data available.

Carcinogenicity no data available.

Chemical name	ACGIH	IARC	NTP	OSHA
Boric acid; H ₃ BO ₃ 10043-35-3	-	Group 2A	-	X

Reproductive Toxicity no data available.

STOT - Single Exposure no data available.

STOT - Repeated Exposure no data available.

Aspiration Hazard no data available.

12. ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Copper-EDTA; Cu-EDTA 14025-15-1	-	LC50: =555mg/L (96h, Lepomis macrochirus)	-	-
Boric acid; H ₃ BO ₃ 10043-35-3	-	-	-	EC50: 115 - 153mg/L (48h, Daphnia magna)

Persistence and Degradability: no data available.

Bioaccumulation No information available.

Chemical name	Partition coefficient
Boric acid; H ₃ BO ₃ 10043-35-3	-1.09

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Do not reuse container.

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 regulated
DOT (AIR)	Not regulated
DOT (Vessel)	Not regulated
IATA (Air)	Not regulated
IMO/IMDG (Vessel)	Not regulated

15. REGULATORY INFORMATION

Federal Regulations:

SARA 313:
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories:

Acute health hazard	No
Chronic Health Hazard	No

Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65:

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations:

State Regulations (RTK): no data available

U.S. EPA Label information:

EPA Pesticide Registration Number: Not applied

16. OTHER INFORMATION

NFPA: Health hazards 3 Flammability 2 Reactivity: 0

HMIS: Health hazards - Flammability 2 Reactivity: 0

Prepared by	Regulatory Affairs Department
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Reason for revision	*** Indicates changes since the last revision. This version replaces all previous versions

Disclaimer

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End of Safety Data Sheet