



Safety Data Sheet

Last Revision Date 11-Mar-2024

Version: 3

1. IDENTIFICATION

Product identifier

Product Name: Peters Excel® 21-5-20 Multi-Purpose
Product Number(s): G99150
Formula No.: S16111

Description: Water Soluble 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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
Reproductive Toxicity	Category 1B
Oxidizing solids	Category 3

Label Elements:

Danger

Hazard Statements:

Causes serious eye irritation
May damage fertility or the unborn child
May intensify fire; oxidizer



Appearance: Prills, Crystals

Physical state Solid

Odor: Fertilizer

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Take any precaution to avoid mixing with combustibles
Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
In case of fire: Use CO₂, dry chemical, or foam for extinction

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

Causes mild skin irritation. Harmful to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	Trade Secret
Ammonium nitrate; NH ₄ NO ₃	6484-52-2	40 - 50%	*
Urea phosphate; CH ₇ N ₂ O ₅ P	4861-19-2	5 - 10%	*
Boric acid; H ₃ BO ₃	10043-35-3	0.1 - 1%	*
Zinc sulphate+1H ₂ O; ZnSO ₄ +1H ₂ O	7446-19-7	0.1 - 1%	*
Copper sulphate anhydrous; CuSO ₄	7758-98-7	0.1 - 1%	*

* 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: Flooding quantities of water.

Unsuitable Extinguishing Media: High volume water jet.

Specific hazards: May intensify fire; oxidizer. Contact with combustible material may

cause fire.

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: Avoid dust formation. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Environmental precautions: Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment: Vacuum or sweep up material and place in a disposal container.
Methods for Cleanup: Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA:	ACGIH:	IDLH:
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	-
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	No data available	-	1 mg/m ³ TWA	100 mg/m ³ IDLH Cu

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

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

Hand Protection Impervious 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	Solid
Color:	blue
Appearance:	Prills, Crystals
Odor:	Fertilizer

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	No data available	
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:	Highly soluble (>80%)	
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:	May intensify fire; oxidizer	

Other information

Softening Point:	no data available
Molecular Weight:	no data available
VOC content	No data available
Density:	no data available
Bulk density:	55-75 lbs/cu.ft.

10. STABILITY AND REACTIVITY

Reactivity:
Stable under recommended storage conditions

Chemically Stable: Yes.

Conditions to Avoid: Dust may form explosive mixture in air.

Materials to avoid Strong oxidizing agents. Reducing agents. Bases. Combustible material. Organic materials. Metals.

Hazardous Decomposition Products: Combustion may produce irritating gases and vapors.

Possibility of Hazardous Reactions: no data available.

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:

Unknown Acute Toxicity: no data available

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2	= 2217 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 88.8 mg/L (Rat) 4 h
Urea phosphate; CH ₇ N ₂ O ₅ P 4861-19-2	= 2600 mg/kg (Rat)	-	-
Boric acid; H ₃ BO ₃ 10043-35-3	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.12 mg/L (Rat) 4 h
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	= 300 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

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
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2	-	Group 2A	-	X
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
Boric acid; H ₃ BO ₃ 10043-35-3	-	-	-	EC50: 115 - 153mg/L (48h, Daphnia magna)
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	-	LC50: =0.1mg/L (96h, Oncorhynchus mykiss)	-	EC50: 0.0058 - 0.0073mg/L (48h, Daphnia magna)

Persistence and Degradability: no data available.

Bioaccumulation There is no data for this product.

Chemical name	Partition coefficient
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2	-3.1
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) UN1477, Nitrates, inorganic, n.o.s, 5.1, PGIII
DOT (AIR) UN1477, Nitrates, inorganic, n.o.s, 5.1, PGIII
DOT (Vessel) UN1477, Nitrates, inorganic, n.o.s, 5.1, PGIII
IATA (Air) UN1477, Nitrates, inorganic, n.o.s, 5.1, PGIII
IMO/IMDG (Vessel) UN1477, Nitrates, inorganic, n.o.s, 5.1, PGIII

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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	Clean Water Act - Priority Pollutants	Clean Water Act - Hazardous Substances
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	-	-	-	Present

CERCLA:

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	CERCLA/SARA 313	CERCLA/SARA RQ
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	10 lb final RQ 4.54 kg final RQ	-

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 2 Flammability 2 Reactivity: 1 Special Hazards: Oxy

HMIS: Health hazards 2 Flammability 2 Reactivity: 1

Prepared by

Regulatory Affairs Department

Last Revision Date

11-Mar-2024

Reason for revision

*** Indicates changes since the last revision. This version replaces all previous versions

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End of Safety Data Sheet