SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US OSHA

Revision date 19-Mar-2025 **Revision Number** 1

1. Identification

Product identifier

Product Name Peters Professional Hydroponic Special Water Soluble Fertilizer with Micronutrients 5-11-26

Other means of identification

Product Code(s) G99393

Recommended use of the chemical and restrictions on use

Recommended use Water Soluble Fertilizer

Restrictions on use No information available

Details of the supplier of the safety data sheet

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

Emergency telephone number

Emergency Telephone CHEMTREC (U.S.): 1-800-424-9300
CHEMTREC (International): 1-703-527-3887
Non-Emergency Calls: 1-800-492-8255

2. Hazard(s) identification

Classification

Reproductive toxicity	Category 1B

Hazards not otherwise classified (HNOC)
Not applicable

Label elements

Danger

Hazard statements
May damage fertility or the unborn child.

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/clothing and eye/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

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Hazards classified under paragraph (d)(1)(ii) of 1910.1200
No information available.

Other information
No information available

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Trade secret
Potassium nitrate	7757-79-1	41.295	*
Potassium dihydrogenphosphate	7778-77-0	23.25	*
Sodium feredetate	15708-41-5	2.35	*
Boric acid	10043-35-3	0.3	*

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

4. First-aid measures

Description of first aid measures

General advice IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Ingestion Rinse mouth
Get medical attention if symptoms occur
NOTE: Never give an unconscious person anything to drink

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically and supportively.

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical May emit toxic and irritating fumes under fire conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool containers with water spray. Contain runoff to prevent entry into water or drainage systems.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Wear protective gloves/protective clothing and eye/face protection.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Reference to other sections See section 8 for more information. See section 13 for more information.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up.

8. Exposure controls/personal protection

Control Parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Potassium nitrate 7757-79-1	-	-	-
Potassium dihydrogenphosphate 7778-77-0	-	-	-
Sodium feredetate 15708-41-5	TWA: 1 mg/m³ Fe	(vacated) TWA: 1 mg/m³ Fe	TWA: 1 mg/m³ Fe
Boric acid 10043-35-3	TWA: 2 mg/m³ inhalable particulate matter STEL: 6 mg/m³ inhalable particulate matter	-	-

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical safety goggles.

Hand protection Wear suitable gloves

Skin and body protection Wear suitable 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

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Prills, powder
Physical state Solid
Color Off white
Odor (includes odor threshold) Fertilizer

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Boiling point (or initial boiling point or boiling range)	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known

Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
SADT (°C)		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Solubility	No data available	None known
Water solubility	No data available	None known
Partition coefficient n-octanol/water (log value)	No data available	None known
Vapor pressure (includes evaporation rate)	No data available	None known
Evaporation rate	No data available	None known
Density and/or relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		None known
Particle Size	No data available	
Particle Size Distribution	No data available	

Other information

10. Stability and reactivity

Reactivity No reactive hazards known/expected.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity No information available.

Numerical measures of toxicity
No information available

The following ATE values have been calculated for the mixture

ATEmix (oral) 10,752.70 mg/kg

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium nitrate 7757-79-1	>2000 mg/kg (rat, OECD 425)	>5000 mg/kg (rat, OECD 402)	>0.527 mg/L (4h, rat, OECD 403)
Potassium dihydrogenphosphate 7778-77-0	>2000 mg/kg (rat, OECD 420, read across)	>2000 mg/kg (rat, OECD 402, read across)	> 0.83 mg/L (4h, rat, OECD 403, read across)
Sodium feredetate 15708-41-5	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 2.75 +/- 0.19 mg/L (Rat) 4 h, max. attainable conc.
Boric acid 10043-35-3	>2600 mg/kg (Rat, OECD 401)	> 2000 mg/kg bw (Rabbit)	> 2.03 mg/L (Rat, 4 h OECD 403)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available

Germ cell mutagenicity No information available

Carcinogenicity Contains a known or suspected carcinogen
Classification based on data available for ingredients
May cause cancer

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

Chemical name	ACGIH	IARC	NTP	OSHA
Potassium nitrate 7757-79-1	-	-	-	-
Potassium dihydrogenphosphate 7778-77-0	-	-	-	-
Sodium feredetate 15708-41-5	-	-	-	-
Boric acid 10043-35-3	-	-	-	-

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

STOT - single exposure No information available.

STOT - repeated exposure No information available

Aspiration hazard Not expected.

Other adverse effects No information available.

12. Ecological information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium nitrate 7757-79-1	> 1700 mg/L (10d, several benthic diatoms)	LC50: 1378 mg/L (96h, poecilia reticulata, OECD 203)	> 1000 mg/L (activated sludge, OECD 209, read across)	EC50: 490 mg/L (48h, daphnia magna)
Potassium dihydrogenphosphate 7778-77-0	EC50: > 100 mg/L (72h, desmodesmus subspicatus, OECD 201, read across); NOEC:> 100 mg/L (72h, desmodesmus subspicatus, OECD 201, read across)	LC50: >100 mg/L (96h, Oncorhynchus mykiss, OECD 203, read across)	EC50: >1000 mg/L (3 h, activated sludge, OECD 209, read across)	EC50: >100 mg/L (48h, daphnia magna, OECD 202, read across)
Sodium feredetate 15708-41-5	EC50: > 87.3 (72h, Pseudokirchnerella subcapitata)	LC50: >100mg/L (96h, Oncorhynchus mykiss)	NOEC: 640 mg/L (3h, Activated sludge)	EC50: 100.9 mg/L (48h, Daphnia magna)
Boric acid 10043-35-3	EC50: =52.4 mg/L (3d, Pseudokirchneriella subcapitata)	LC50: =79.7mg/L (96h, Pimephales promelas)LC50: =74 mg/L (96h, Limanda limanda)	-	EC50: 64 - >544mg/L (freshwater invertebrates)

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Potassium nitrate 7757-79-1	-
Potassium dihydrogenphosphate 7778-77-0	-
Sodium feredetate 15708-41-5	-
Boric acid 10043-35-3	-1.09

Mobility in soil No information available.

Other adverse effects No information available

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Dispose of in a safe manner in accordance with local/national regulations.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT Not regulated

TDG Not regulated

MEX Not regulated

IATA Not regulated

IMDG Not regulated

15. Regulatory information

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

Chemical name	Ozone depletion potential (ODP)	Ozone-depleting substances (ODS)
Potassium nitrate - 7757-79-1	-	-
Potassium dihydrogenphosphate - 7778-77-0	-	-
Sodium feredetate - 15708-41-5	-	-
Boric acid - 10043-35-3	-	-

The Stockholm Convention on Persistent Organic Pollutants Not applicable

Chemical name	Annex
Potassium nitrate - 7757-79-1	-
Potassium dihydrogenphosphate - 7778-77-0	-
Sodium feredetate - 15708-41-5	-
Boric acid - 10043-35-3	-

The Rotterdam Convention Not applicable

Chemical name	Chemicals Subject to Prior Informed Consent (PIC)
Potassium nitrate - 7757-79-1	-
Potassium dihydrogenphosphate - 7778-77-0	-
Sodium feredetate - 15708-41-5	-
Boric acid - 10043-35-3	-

International Inventories

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory
Products that are used as food additives are exempt from listing in international chemical inventories

For further details on the regulatory status for this product in a specific country, please send your inquiry to the following email address: msdsinfo@icl-group.com

Chemical name	TSCA Inventory List Active/Inactive

Potassium nitrate 7757-79-1 (41.295)	Present (ACTIVE)
Potassium dihydrogenphosphate 7778-77-0 (23.25)	Present (ACTIVE)
Sodium feredetate 15708-41-5 (2.35)	Present (ACTIVE)
Boric acid 10043-35-3 (0.3)	Present (ACTIVE)

TSCA	Listed or exempted
DSL	Not Listed
NDSL	Not Listed
ENCS	Not Listed
IECSC	Listed or exempted
KECL	Not Listed
PICCS	Not Listed
AIIC	Listed or exempted
NZIoC	Not Listed
TCSI	Listed or exempted
NCI	Listed or exempted
TECI	Not Listed
NSQ	Not Listed

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory
NCI - Vietnam National Chemicals Inventory
TECI - Thailand Inventory FDA Existing Chemicals
NSQ - Mexico National Inventory of Chemical Substances

US Federal Regulations

Chemical name	**U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)**
Potassium nitrate - 7757-79-1	-
Potassium dihydrogenphosphate - 7778-77-0	-
Sodium feredetate - 15708-41-5	-
Boric acid - 10043-35-3	-

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Potassium nitrate - 7757-79-1	1.0
Potassium dihydrogenphosphate - 7778-77-0	-
Sodium feredetate - 15708-41-5	-
Boric acid - 10043-35-3	-

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium nitrate 7757-79-1	-	-	-	-
Potassium dihydrogenphosphate 7778-77-0	-	-	-	-
Sodium feredetate 15708-41-5	-	-	-	-
Boric acid 10043-35-3	-	-	-	-

CAA (Clean Air Act)
This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

Chemical name	Hazardous air pollutants (HAPs)	Ozone-depleting substances (ODS)
Potassium nitrate 7757-79-1	-	-
Potassium dihydrogenphosphate 7778-77-0	-	-
Sodium feredetate 15708-41-5	-	-
Boric acid 10043-35-3	-	-

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.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Potassium nitrate 7757-79-1	-	-	
Potassium dihydrogenphosphate 7778-77-0	-	-	
Sodium feredetate 15708-41-5	-	-	
Boric acid 10043-35-3	-	-	

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Potassium nitrate 7757-79-1	X	X	X
Sodium feredetate	-	-	X

15708-41-5			
Manganese disodium EDTA trihydrate 15375-84-5	X	-	X
Boric acid 10043-35-3	X	-	-
Zinc disodium EDTA 14025-21-9	X	-	X
Ethylenediaminetetraacetic acid, copper disodium complex 14025-15-1	X	-	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA **Health hazards** 0 **Flammability** 0 **Instability** 0 **Special hazards** -
HMIS **Health hazards** * **Flammability** 0 **Physical hazards** 0 **Personal protection** -
Chronic Hazard Star Legend ** = Chronic Health Hazard*

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	Environmental Protection Agency
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization

KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NTP	National Toxicology Program (United States)
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
OSHA	Occupational Safety and Health Administration of the US Department of Labor
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Chronic Hazard Star Legend ** = Chronic Health Hazard*

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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Revision Note The symbol (***) in the margin of this SDS indicates that this line has been revised.

Disclaimer

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End of Safety Data Sheet