Safety Data Sheet

Original Issue Date no data available **Last Revision Date** 13-Sep-2024 **Version:** 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product identifier
Product Name Peters Excel Cal-Mag Special Water Soluble Fertilizer with Micronutrients 15-5-15 (no dye)

Other means of identification
Product ID G99007C

UN-No: UN1477

Recommended use of the chemical and restrictions on use
Recommended Use Water soluble fertilizer.

Uses Advised Against None

Details of the supplier of the safety data sheet

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

Emergency telephone number
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

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

2. HAZARDS IDENTIFICATION

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 1B

Label Elements:

Danger

Hazard statements
Harmful if swallowed
Causes severe skin burns and eye damage
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/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor

Eyes
Immediately call a POISON CENTER or doctor
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
Wash contaminated clothing before reuse

Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Immediately call a POISON CENTER or doctor

Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Information
Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Calcium ammonium nitrate (US)	15245-12-2	10 - 30%	-	-
Magnesium nitrate hexahydrate; $Mg(NO_3)_2+6H_2O$	13446-18-9	10 - 30%	-	-
Urea phosphate; $CH_7N_2O_5P$	4861-19-2	7 - 13%	-	-
Ammonium nitrate; NH_4NO_3	6484-52-2	5 - 10%	-	-
Manganese sulphate; $MnSO_4$	7785-87-7	0.1 - 1%	-	-
Boric acid; H_3BO_3	10043-35-3	0.1 - 1%	-	-
Zinc sulphate+1H2O; $ZnSO_4+1H_2O$	7446-19-7	0.1 - 1%	-	-

4. FIRST AID MEASURES

Description of first aid measures

Inhalation Remove to fresh air. If symptoms persist, call a physician.

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.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms no data available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water spray.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating and toxic gases and vapors. The product itself does not burn. May intensify fire; oxidizer.

Specific methods:
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

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.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

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

Packaging materials Paperbags or Bulk.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	Manganese sulphate; $MnSO_4$ - 7785-87-7
Alberta	TWA: 0.2 mg/m³
British Columbia	TWA: 0.2 mg/m³ TWA: 0.02 mg/m³ Adverse reproductive effect
Ontario	TWA: 0.02 mg/m³ TWA: 0.1 mg/m³
Quebec	TWA: 0.2 mg/m³
Chemical name	Boric acid; H_3BO_3 - 10043-35-3
British Columbia	TWA: 2 mg/m³ STEL: 6 mg/m³
Ontario	TWA: 2 mg/m³ STEL: 6 mg/m³
Quebec	TWA: 2 mg/m³ STEL: 6 mg/m³

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	Wear suitable protective clothing. Impervious 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
Appearance:	Prills, powder
Color:	Off-white
Odor:	Fertilizer

Property	**Values**	**Remarks • Method**
pH:	No data available	no data available
Melting Point/Freezing Point:	No data available	no data available
Boiling Point/Range:	No data available	no data available
Flash Point:	No data available	no data available
Evaporation Rate:	no data available	no data available
Flammability (solid, gas):	No data available	no data available
Flammability Limits in Air:		no data available
Upper Flammability Limit:	No data available	
Lower Flammability Limit:	No data available	
Vapor Pressure:	No data available	no data available
Vapour density	No data available	no data available
Relative density		no data available
Water Solubility:	no data available	no data available
Solubility in other Solvents:	no data available	no data available
Partition Coefficient:	no data available	no data available
Autoignition Temperature:	No data available	no data available
Hyphen	no data available	no data available
Kinematic Viscosity:	No data available	no data available
Dynamic Viscosity:	no data available	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:	no data available

10. STABILITY AND REACTIVITY

Reactivity	Not reactive.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Conditions to Avoid: Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials Keep away from catalysts like derivates of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

Hazardous decomposition products None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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

Acute toxicity

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

ATEmix (oral)	1,869.20 mg/kg
ATEmix (dermal)	99,999.00 mg/kg
ATEmix (inhalation-gas)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	99,999.00 mg/l
ATEmix (inhalation-vapor)	99,999.00 mg/l

Unknown acute toxicity no data available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium ammonium nitrate (US) - 15245-12-2	300 - 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Magnesium nitrate hexahydrate; $Mg(NO_3)_2+6H_2O$ - 13446-18-9	= 5440 mg/kg (Rat)	-	-
Urea phosphate; $CH_7N_2O_5P$ - 4861-19-2	= 2600 mg/kg (Rat)	-	-
Ammonium nitrate; NH_4NO_3 - 6484-52-2	= 2217 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 88.8 mg/L (Rat) 4 h
Manganese sulphate; $MnSO_4$ - 7785-87-7	= 782 mg/kg (Rat)	-	> 4.45 mg/L (Rat) 4 h
Boric acid; H_3BO_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.

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

Chemical name	Calcium ammonium nitrate (US) - 15245-12-2
ACGIH	-
IARC	Group 2A
NTP	-
OSHA	X
Chemical name	Magnesium nitrate hexahydrate; $Mg(NO_3)_2+6H_2O$ - 13446-18-9
ACGIH	-
IARC	Group 2A
NTP	-
OSHA	X
Chemical name	Ammonium nitrate; NH_4NO_3 - 6484-52-2
ACGIH	-
IARC	Group 2A
NTP	-
OSHA	X
Chemical name	Boric acid; H_3BO_3 - 10043-35-3
ACGIH	-
IARC	Group 2A
NTP	-
OSHA	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
A4 - Not Classifiable as a Human Carcinogen
IARC (International Agency for Research on Cancer)
Group 2A - Probably Carcinogenic to Humans
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

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

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea

			microorganisms	
Boric acid; H_3BO_3 - 10043-35-3	-	-	-	EC50: 115 - 153mg/L (48h, Daphnia magna)

Persistence and Degradability: no data available.

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient
Ammonium nitrate; NH_4NO_3 - 6484-52-2	-3.1
Boric acid; H_3BO_3 - 10043-35-3	-1.09

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 Do not reuse empty containers.

14. TRANSPORT INFORMATION

TDG Regulated
- **UN-No:** 1477
- **Proper shipping name:** Nitrates, Inorganic N.O.S.
- **Transport hazard class(es)** 5.1
- **Packing group:** III

DOT Regulated
- **UN-No:** UN1477
- **Proper shipping name:** Nitrates, inorganic, n.o.s.
- **Transport hazard class(es)** 5.1
- **Packing group:** III

IATA Regulated
- **UN number or ID number** UN1477
- **Proper shipping name:** Nitrates, Inorganic N.O.S.
- **Transport hazard class(es)** 5.1
- **Packing group** III

IMDG Regulated
- **UN number or ID number** UN1477
- **Proper shipping name:** Nitrates, inorganic, n.o.s.
- **Transport hazard class(es)** 5.1
- **Packing group:** III

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

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

The Stockholm Convention on Persistent Organic Pollutants
Not applicable

The Rotterdam Convention Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA:	**Health hazards**	3	**Flammability**	0	**Instability**	0	**Physical and chemical properties** -
HMIS Health Rating:	**Health hazards**	3 *	**Flammability**	0	**Physical hazards**	0	**Personal protection** X

Prepared by Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM).

Last Revision Date 13-Sep-2024

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

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.