



Safety Data Sheet

Original Issue Date no data available

Last Revision Date 25-Sep-2024

Version: 3

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

Product identifier

Product Name Osmocote Plus Tablets with Micronutrients 15-8-11 (8-9M)

Other means of identification

Product ID G90336C

Recommended use of the chemical and restrictions on use

Recommended Use Controlled release 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

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CHEMTREC (International): 1-703-527-3887
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2. HAZARDS IDENTIFICATION

Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B

Label Elements:

Danger

Hazard statements

Causes serious eye irritation
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

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

Eyes

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

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

Causes mild skin irritation 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)
Ammonium nitrate; NH ₄ NO ₃	6484-52-2	30 - 60%	-	-
Iron sulphate; FeSO ₄	7720-78-7	1 - 5%	-	-
Copper sulphate anhydrous; CuSO ₄	7758-98-7	0.1 - 1%	-	-
Manganese sulphate; MnSO ₄	7785-87-7	0.1 - 1%	-	-
Borax; Na ₂ B ₄ O ₇ +10H ₂ O	1303-96-4	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

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

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 toxic and corrosive gases/vapors.

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	Iron sulphate; FeSO ₄ - 7720-78-7
Alberta	TWA: 1 mg/m ³
British Columbia	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Ontario	TWA: 1 mg/m ³
Quebec	TWA: 1.0 mg/m ³
Chemical name	Manganese sulphate; MnSO ₄ - 7785-87-7
Alberta	TWA: 0.2 mg/m ³
British Columbia	TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³ Adverse reproductive effect
Ontario	TWA: 0.02 mg/m ³ TWA: 0.1 mg/m ³
Quebec	TWA: 0.2 mg/m ³
Chemical name	Borax; Na ₂ B ₄ O ₇ +10H ₂ O - 1303-96-4
Alberta	TWA: 1 mg/m ³ STEL: 3 ppm
British Columbia	TWA: 2 mg/m ³ STEL: 6 mg/m ³
Ontario	TWA: 2 mg/m ³ STEL: 6 mg/m ³
Quebec	TWA: 1 ppm

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).

Skin and body protection No special protective equipment required.

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: tablet

Color: Multi-colored
Odor: Fertilizer

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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	no data available.	

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.

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

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) 30,970.90 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
Ammonium nitrate; NH ₄ NO ₃ - 6484-52-2	= 2217 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 88.8 mg/L (Rat) 4 h
Iron sulphate; FeSO ₄ - 7720-78-7	= 319 mg/kg (Rat)	-	-
Copper sulphate anhydrous; CuSO ₄ - 7758-98-7	= 300 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Manganese sulphate; MnSO ₄ - 7785-87-7	= 782 mg/kg (Rat)	-	> 4.45 mg/L (Rat) 4 h
Borax; Na ₂ B ₄ O ₇ +10H ₂ O - 1303-96-4	= 3493 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 2 mg/m ³ (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	Ammonium nitrate; NH ₄ NO ₃ - 6484-52-2
ACGIH	-
IARC	Group 2A
NTP	-
OSHA	X
Chemical name	Borax; Na ₂ B ₄ O ₇ +10H ₂ O - 1303-96-4
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 microorganisms	Crustacea
Iron sulphate; FeSO ₄ - 7720-78-7	-	LC50: =925mg/L (96h, Poecilia reticulata) LC50: =0.56mg/L (96h, Cyprinus carpio)	-	EC50: =152mg/L (48h, Daphnia magna) EC50: 6.15 - 9.26mg/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 No information available.

Component Information

Chemical name	Partition coefficient
Ammonium nitrate; NH ₄ NO ₃ - 6484-52-2	-3.1

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 Not regulated

DOT Not regulated

IATA	Regulated
UN number or ID number	2071
Proper shipping name:	AMMONIUM NITRATE BASED FERTILIZER
Transport hazard class(es)	9
Packing group	III
IMDG	Regulated
UN number or ID number	UN2071
Proper shipping name:	AMMONIUM NITRATE BASED FERTILIZER
Transport hazard class(es)	9
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

<u>NFPA:</u>	Health hazards 2	Flammability 0	Instability 0	Physical and chemical properties -
<u>HMS Health Rating:</u>	Health hazards 2 *	Flammability 0	Physical hazards 0	Personal protection X

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

Last Revision Date 25-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.