



# Safety Data Sheet

Original Issue Date no data available

Last Revision Date 18-Sep-2024

Version: 2

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

**Product identifier**

**Product Name** Osmocote Blend Controlled Release Fertilizer with Micronutrients 21-4-8 (8-9M)

**Other means of identification**

**Product ID** A98610C

**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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## 2. HAZARDS IDENTIFICATION

Serious eye damage/eye irritation	Category 2A
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**Label Elements:**

**Warning**

**Hazard statements**  
Causes serious eye irritation



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/face protection

**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

**Other Information**

Causes mild skin irritation Toxic to aquatic life Harmful to aquatic life with long lasting effects Toxic 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 <sub>4</sub> NO <sub>3</sub>	6484-52-2	15 - 40%	-	-
Sulphur; S	7704-34-9	5 - 10%	-	-
Manganese sulphate; MnSO <sub>4</sub>	7785-87-7	0.1 - 1%	-	-
Zinc sulfate; ZnSO <sub>4</sub>	7733-02-0	0.1 - 1%	-	-
Zinc oxide; ZnO	1314-13-2	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**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	Thermal decomposition can lead to release of toxic and corrosive gases/vapors.
<b>Specific methods:</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	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	Sulphur; S - 7704-34-9
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<b>Alberta</b>	TWA: 10 mg/m <sup>3</sup>
Chemical name	Manganese sulphate; MnSO <sub>4</sub> - 7785-87-7
<b>Alberta</b>	TWA: 0.2 mg/m <sup>3</sup>
<b>British Columbia</b>	TWA: 0.2 mg/m <sup>3</sup> TWA: 0.02 mg/m <sup>3</sup> Adverse reproductive effect
<b>Ontario</b>	TWA: 0.02 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
<b>Quebec</b>	TWA: 0.2 mg/m <sup>3</sup>
Chemical name	Zinc oxide; ZnO - 1314-13-2
<b>Alberta</b>	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
<b>British Columbia</b>	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
<b>Ontario</b>	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
<b>Quebec</b>	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>

#### 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:** Granules  
**Color:** Multi-colored  
**Odor:** Fertilizer

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH:</b>	No data available	no data available
<b>Melting Point/Freezing Point:</b>	No data available	no data available
<b>Boiling Point/Range:</b>	No data available	no data available
<b>Flash Point:</b>	No data available	no data available
<b>Evaporation Rate:</b>	no data available	no data available
<b>Flammability (solid, gas):</b>	No data available	no data available
<b>Flammability Limits in Air:</b>		no data available
<b>Upper Flammability Limit:</b>	No data available	
<b>Lower Flammability Limit:</b>	No data available	
<b>Vapor Pressure:</b>	No data available	no data available
<b>Vapour density</b>	No data available	no data available
<b>Relative density</b>		no data available
<b>Water Solubility:</b>	no data available	no data available

<b>Solubility in other Solvents:</b>	no data available	no data available
<b>Partition Coefficient:</b>	no data available	no data available
<b>Autoignition Temperature:</b>	No data available	no data available
<b>Hyphen</b>	no data available	no data available
<b>Kinematic Viscosity:</b>	No data available	no data available
<b>Dynamic Viscosity:</b>	no data available	no data available
<b>Explosive properties</b>	no data available.	
<b>Oxidizing properties</b>	no data available.	

Other information

<b>Softening Point:</b>	no data available
<b>Molecular Weight:</b>	no data available
<b>VOC content</b>	No data available
<b>Density:</b>	no data available
<b>Bulk Density:</b>	no data available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to Avoid:</b>	None known based on information supplied.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous decomposition products</b>	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	no data available.
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Numerical measures of toxicity

**Acute toxicity**

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

<b>ATEmix (oral)</b>	99,999.00 mg/kg
<b>ATEmix (dermal)</b>	99,999.00 mg/kg
<b>ATEmix (inhalation-gas)</b>	99,999.00 mg/l
<b>ATEmix (inhalation-dust/mist)</b>	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 <sub>4</sub> NO <sub>3</sub> - 6484-52-2	= 2217 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	> 88.8 mg/L ( Rat ) 4 h
Sulphur; S - 7704-34-9	> 3000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 9.23 mg/L ( Rat ) 4 h
Manganese sulphate; MnSO <sub>4</sub> - 7785-87-7	= 782 mg/kg ( Rat )	-	> 4.45 mg/L ( Rat ) 4 h
Zinc sulfate; ZnSO <sub>4</sub> - 7733-02-0	= 1710 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Zinc oxide; ZnO - 1314-13-2	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 5700 mg/m <sup>3</sup> ( 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 <sub>4</sub> NO <sub>3</sub> - 6484-52-2
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 3 - Not Classifiable as to Carcinogenicity in Humans

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
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			microorganisms	
Sulphur; S - 7704-34-9	-	LC50: =866mg/L (96h, Brachydanio rerio) LC50: <14mg/L (96h, Lepomis macrochirus) LC50: >180mg/L (96h, Oncorhynchus mykiss)	-	-
Zinc sulfate; ZnSO <sub>4</sub> - 7733-02-0	EC50: =0.056mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =0.162mg/L (96h, Oncorhynchus mykiss) LC50: 0.03 - 0.05mg/L (96h, Oncorhynchus mykiss) LC50: 0.34 - 0.93mg/L (96h, Oncorhynchus mykiss) LC50: 0.218 - 0.42mg/L (96h, Pimephales promelas) LC50: =0.06mg/L (96h, Pimephales promelas) LC50: 0.23 - 0.48mg/L (96h, Pimephales promelas) LC50: 0.168 - 0.25mg/L (96h, Pimephales promelas) LC50: =0.15mg/L (96h, Cyprinus carpio) LC50: 16.85 - 27.18mg/L (96h, Cyprinus carpio) LC50: 3 - 4.6mg/L (96h, Lepomis macrochirus) LC50: 3.55 - 6.32mg/L (96h, Lepomis macrochirus) LC50: =0.63mg/L (96h, Poecilia reticulata) LC50: 49.23 - 64.16mg/L (96h, Poecilia reticulata) LC50: 0.48 - 1.72mg/L (96h, Poecilia reticulata)	-	EC50: =0.75mg/L (48h, Daphnia magna) EC50: 0.538 - 0.908mg/L (48h, Daphnia magna)
Zinc oxide; ZnO - 1314-13-2	-	LC50: =1.55mg/L (96h, Danio rerio)	-	-

**Persistence and Degradability:** no data available.

**Bioaccumulation** No information available.

**Component Information**

Chemical name	Partition coefficient
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub> - 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 UN2071  
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**

NFPA:	Health hazards 2	Flammability 0	Instability 0	Physical and chemical properties -
HMS Health Rating:	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection X

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

**Last Revision Date** 18-Sep-2024

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



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