



# Safety Data Sheet

Issue Date: no data available

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Version: 1

## 1. IDENTIFICATION

**Product Identifier:**

**Product Name:** Osmocote ® Blend 21-4-8; 12-14M  
**Product Number(s):** A98615  
**Formula No.:** S10887

**Recommended Use of the Chemical and Restrictions on Use:**

**Description:** Controlled Release Fertilizer

**Company:**

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

**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

## 2. HAZARD(S) IDENTIFICATION

**Classification 67/548/EEC**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

**Label Elements:**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance:** Granules

**Physical State:** Solid

**Odor:** Fertilizer

**Hazards Not Otherwise Classified (HNOC):**

Not Applicable

**Other Information:**

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %	Trade Secret
Ammonium Nitrate; $\text{NH}_4\text{NO}_3$	6484-52-2	30-50	*
Potassium sulphate; $\text{K}_2\text{SO}_4$	7778-80-5	10-30	*
Coating	PROPRIETARY	10-15	*
Sulphur; S	7704-34-9	3-7	*
Di ammonium phosphate; $(\text{NH}_4)_2\text{HPO}_4$	7783-28-0	1-5	*
Zinc Sulfate anh; $\text{ZnSO}_4$	7733-02-0	<0.5	*

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

#### 4. FIRST-AID MEASURES

##### First Aid Measures:

<b>Eye Contact:</b>	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.
<b>Skin Contact:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>Inhalation:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion:</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not 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

<b><u>Suitable extinguishing media:</u></b>	Water spray, carbon dioxide, dry chemical, chemical foam.
<b><u>Unsuitable extinguishing media:</u></b>	High volume water jet.
<b><u>Specific hazards:</u></b>	Dust clouds may be explosive.
<b><u>Hazardous Combustion Products:</u></b>	Combustion can produce toxic fumes and irritating gases.

##### Explosion Data:

**Sensitivity to Mechanical Impact:**

no data available.

**Sensitivity to Static Discharge:**

no data available.

<b><u>Special Protective Equipment for Firefighters:</u></b>	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
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#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal Precautions, Protective Equipment and Emergency Procedures:

**Personal Precautions:** Wear personal protective equipment. Ensure adequate ventilation.

**Environmental Precautions:** Prevent product from entering drains.

##### Methods and Material for Containment and Cleanup:

**Methods for containment:** Use good housekeeping practices. Clean up promptly by sweeping or vacuum.  
**Methods for Cleanup:** If material is uncontaminated, collect and reuse as recommended for product.

#### 7. HANDLING AND STORAGE

##### Precautions for Safe Handling:

**Handling:** 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** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Ingredients	ACGIH TLV	OSHA:	IDLH:
Ammonium Nitrate; $\text{NH}_4\text{NO}_3$ 6484-52-2	-	N.A.	-
Potassium sulphate; $\text{K}_2\text{SO}_4$ 7778-80-5	-	Not Listed	-

**Appropriate Engineering Controls:**

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual Protection Measures, Such as Personal Protective Equipment:**

**Eye/face Protection** No special protective equipment required.

**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

**Physical and Chemical Properties:**

<b>Physical State:</b>	Solid	<b>Appearance:</b>	granulate
<b>Color:</b>	Multi-colored	<b>Odor</b>	No information available
<b>Odor:</b>	Fertilizer	<b>Threshold:</b>	

<b>Property</b>	<b>Values</b>	<b>Remarks: • Method</b>
pH:	No information available	
Melting Point/Freezing Point:	No information available	
Boiling Point/Range:	No information available	
Flash Point:	No information available	
Evaporation Rate:	No information available	
Flammability (solid, gas):	No information available	
Flammability Limits in Air:		
Upper Flammability Limit:	No information available	
Lower Flammability Limit:	No information available	
Vapor Pressure:	No information available	
Vapor Density:	No information available	
Specific Gravity:	No information available	

**Solubility:** No information available  
**Solubility in other Solvents:** No information available  
**Partition Coefficient:** No information available  
**Autoignition Temperature:** No information available  
**Decomposition Temperature:** No information available  
**Kinematic Viscosity:** No information available  
**Dynamic Viscosity:** No information available  
**Explosive Properties:** No information available  
**Oxidizing Properties:** Not considered an oxidizer

**Other Information:**

**Softening Point:** No information available  
**Molecular Weight:** No information available  
**VOC Content (%):** No information available  
**Density:** No information available  
**Bulk density:** 55-65 lbs/cu.ft.

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under normal conditions

**Chemically Stable:** yes.

**Conditions to Avoid:** Damp or wet conditions. Extreme heat.

**Materials to avoid** Combustible material. Oxidizing agent. Reducing agents.

**Hazardous Decomposition Products:** Toxic fumes and gases may be generated. Metal oxides possible.

**Possibility of Hazardous Reactions:** Poses little or no immediate hazard.

## 11. TOXICOLOGICAL INFORMATION

**Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):**

**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.

**Information on Toxicological Effects:**

**Symptoms** No information available.

**Numerical Measures of Toxicity**

**Acute Toxicity**

**Unknown Acute Toxicity:** No information available

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>	= 2217 mg/kg ( Rat )	-	> 88.8 mg/L ( Rat ) 4 h

6484-52-2			
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> 7778-80-5	= 6600 mg/kg ( Rat )	-	-
Sulphur; S 7704-34-9	> 3000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 9.23 mg/L ( Rat ) 4 h
Di ammonium phosphate; (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub> 7783-28-0	= 6500 mg/kg ( Rat )	> 7950 mg/kg ( Rabbit )	-
Zinc Sulfate anh; ZnSO <sub>4</sub> 7733-02-0	= 1710 mg/kg ( Rat )	-	-

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:**

<b>skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ Cell Mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

**12. ECOLOGICAL INFORMATION**

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

Ingredients	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> 7778-80-5	2900: 72 h Desmodesmus subspicatus mg/L EC50	653: 96 h Lepomis macrochirus mg/L LC50 3550: 96 h Lepomis macrochirus mg/L LC50 static 510 - 880: 96 h Pimephales promelas mg/L LC50 static	-	890: 48 h Daphnia magna mg/L EC50
Sulphur; S 7704-34-9	-	866: 96 h Brachydanio rerio mg/L LC50 static 14: 96 h Lepomis macrochirus mg/L LC50 static 180: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-
Di ammonium phosphate; (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub> 7783-28-0	-	26.5: 96 h Oncorhynchus mykiss mg/L LC50 24.8 - 29.4: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 3.3: 96 h Pimephales promelas	-	-

		mg/L LC50 33: 96 h Pimephales promelas mg/L LC50 static		
Zinc Sulfate anh; ZnSO <sub>4</sub> 7733-02-0	0.056: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 64.8: 72 h Chlorella vulgaris mg/L EC50 2.4: 96 h Chlorella vulgaris mg/L EC50	0.162: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.05: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.34 - 0.93: 96 h Oncorhynchus mykiss mg/L LC50 static 0.218 - 0.42: 96 h Pimephales promelas mg/L LC50 flow-through 0.06: 96 h Pimephales promelas mg/L LC50 static 0.23 - 0.48: 96 h Pimephales promelas mg/L LC50 49.23 - 64.16: 96 h Poecilia reticulata mg/L LC50 semi-static 0.48 - 1.72: 96 h Poecilia reticulata mg/L LC50 static 0.168 - 0.25: 96 h Pimephales promelas mg/L LC50 semi-static 0.15: 96 h Cyprinus carpio mg/L LC50 semi-static 16.85 - 27.18: 96 h Cyprinus carpio mg/L LC50 static 3 - 4.6: 96 h Lepomis macrochirus mg/L LC50 flow-through 3.55 - 6.32: 96 h Lepomis macrochirus mg/L LC50 static 0.63: 96 h Poecilia reticulata mg/L LC50	-	0.75: 48 h Daphnia magna mg/L EC50 0.538 - 0.908: 48 h Daphnia magna mg/L EC50 Static

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

Ingredients	LOGPOW
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2	-3.1

**Mobility:** Water contaminating.

### 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.

<b>DOT (Land)</b>	Not DOT regulated
<b>DOT (AIR)</b>	UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII
<b>DOT (Vessel)</b>	UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII
<b>IATA (Air)</b>	UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII
<b>IMO/IMDG (Vessel)</b>	UN2071, Ammonium Nitrate Based Fertilizer, 9, 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:**

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	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).

Ingredients	CWA - Reportable Quantities	CWA - Toxic Pollutants	Clean Water Act - Priority Pollutants	Clean Water Act - Hazardous Substances
Zinc Sulfate anh; ZnSO <sub>4</sub> 7733-02-0	-	-	-	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).

Ingredients	CERCLA/SARA 313	CERCLA/SARA RQ
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2	Not listed	-
Zinc Sulfate anh; ZnSO <sub>4</sub> 7733-02-0	1000 lb final RQ 454 kg final RQ	-

### State Regulations (RTK):

#### **California Proposition 65:**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations:

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U.S. EPA Label information:

EPA Pesticide Registration Number: Not Applicable

<b>16. OTHER INFORMATION</b>
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**NFPA:**      Health: 1                      Flammability: 0                      Reactivity: 1

**HMIS:**      Health: 1                      Flammability: 0                      Reactivity: 1

Revision Date:                      25-Aug-2016

Revision Note:

Reason for revision:              None

Disclaimer

This information contained herein is, to the best of Everris' knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Everris shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Everris shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

**End of Safety Data Sheet**