



# Safety Data Sheet

Original Issue Date 08-Jul-2020

Last Revision Date 16-Nov-2023

Version: 3

## 1. IDENTIFICATION

### Product identifier

**Product Name:** Osmocote® Plus Tablets 15-8-11 Plus Minors  
**Product Number(s):** G90336  
**Formula No.:** S14566

**Description:** Controlled release fertilizer

### Recommended use of the chemical and restrictions on use

Restricted to professional users

### 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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
Reproductive Toxicity	Category 1B

### Label Elements:

**Danger**

### Hazard Statements:

Causes serious eye irritation  
May damage fertility or the unborn child



**Appearance:** Granules

**Physical state:** Solid

**Odor:** Fertilizer

### 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  
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

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

Not applied

**Other Information**

Causes mild skin irritation. May cause long lasting harmful effects to aquatic life.

**Unknown Acute Toxicity:**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No.	Weight-%	Trade Secret
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	40 - 50%	*
Iron sulphate; FeSO <sub>4</sub>	7720-78-7	1 - 5%	*
Copper sulphate anhydrous; CuSO <sub>4</sub>	7758-98-7	0.1 - 1%	*
Manganese sulphate; MnSO <sub>4</sub>	7785-87-7	0.1 - 1%	*
Borax; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10H <sub>2</sub> O	1303-96-4	0.1 - 1%	*

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

**4. FIRST-AID MEASURES**

**Description of first aid measures**

**Eye Contact:**

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.

**Skin Contact:**

Call a poison control center or doctor for treatment advice. Take off contaminated clothing. Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Inhalation**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a POISON CENTER or doctor.

**Ingestion:**

Call a physician or Poison Control Centre immediately. Do not induce vomiting without medical advice. Never 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**

**Suitable Extinguishing Media:**

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Chemical foam.

**Unsuitable Extinguishing Media:**

High volume water jet.

**Specific hazards:**

Dust may form explosive mixture in air.

**Hazardous Combustion Products**

Combustion can produce toxic fumes and irritating gases.

**Explosion Data:**

**Sensitivity to Mechanical Impact:** no data available.  
**Sensitivity to Static Discharge:** no data available.

**Special Protective Equipment for Firefighters:** In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Wear personal protective equipment.

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

**Methods and material for containment and cleaning up**

**Methods for containment:** Follow good housekeeping practices.  
**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:** Keep containers tightly closed in a dry, cool and well-ventilated place.

**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.

Chemical name	ACGIH TLV	OSHA:	ACGIH:	IDLH:
Iron sulphate; FeSO <sub>4</sub> 7720-78-7	-	-	1 mg/m <sup>3</sup> TWA	-
Copper sulphate anhydrous; CuSO <sub>4</sub> 7758-98-7	-	-	1 mg/m <sup>3</sup> TWA	100 mg/m <sup>3</sup> IDLH Cu
Manganese sulphate; MnSO <sub>4</sub> 7785-87-7	-	-	0.02 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup> TWA	500 mg/m <sup>3</sup> IDLH Mn
Borax; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10H <sub>2</sub> O 1303-96-4	TWA: 2 mg/m <sup>3</sup> inhalable particulate matter STEL: 6 mg/m <sup>3</sup> inhalable particulate matter	-	2 mg/m <sup>3</sup> TWA	-

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eyewash. Showers.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face Protection</b>	Wear safety glasses with side shields (or goggles).
<b>Hand Protection</b>	Neoprene gloves.
<b>Skin and body protection</b>	Lightweight protective clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Color:</b>	tan
<b>Appearance:</b>	tablet
<b>Odor:</b>	Fertilizer

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH:</b>	No data available	
<b>Melting Point/Freezing Point:</b>	Not applicable	
<b>Boiling Point/Range:</b>	No data available	
<b>Flash Point:</b>		
<b>Evaporation Rate:</b>	no data available	
<b>Flammability (solid, gas):</b>	No data available	
<b>Flammability Limits in Air:</b>		
<b>Upper Flammability Limit:</b>	No data available	
<b>Lower Flammability Limit:</b>	No data available	
<b>Vapor Pressure:</b>	No data available	
<b>Vapour density</b>	No data available	
<b>Relative density</b>	no data available	
<b>Solubility:</b>	no data available	
<b>Solubility in other Solvents:</b>	no data available	
<b>Partition Coefficient:</b>	no data available	
<b>Autoignition Temperature:</b>	No data available	
<b>Hyphen</b>	no data available	
<b>Kinematic Viscosity:</b>	No data available	
<b>Dynamic Viscosity:</b>	no data available	
<b>Explosive Properties:</b>	no data available	
<b>Oxidizing Properties:</b>	Not considered an oxidizer	

### 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>	55-65 lbs/cu.ft.

## 10. STABILITY AND REACTIVITY

**Reactivity:**  
Stable under recommended storage conditions

**Chemically Stable:** Stable under recommended storage conditions.

<b>Conditions to Avoid:</b>	Protect from extremes of temperature.
<b>Materials to avoid</b>	Oxidizing agent.
<b>Hazardous Decomposition Products:</b>	Toxic fumes and gases may be generated. Metal oxides possible.
<b>Possibility of Hazardous Reactions:</b>	Poses little or no immediate hazard.

## 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

**Symptoms** no data available.

### Numerical measures of toxicity

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

**Oral LD50** 30,970.90 mg/kg

**Unknown Acute Toxicity:** 0% of the mixture consists of ingredient(s) of unknown toxicity

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
Iron sulphate; FeSO <sub>4</sub> 7720-78-7	= 319 mg/kg ( Rat )	-	-
Copper sulphate anhydrous; CuSO <sub>4</sub> 7758-98-7	= 300 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Manganese sulphate; MnSO <sub>4</sub> 7785-87-7	= 782 mg/kg ( Rat )	-	> 4.45 mg/L ( Rat ) 4 h
Borax; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10H <sub>2</sub> O 1303-96-4	= 3493 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	> 2 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.

Chemical name	ACGIH	IARC	NTP	OSHA
Ammonium nitrate;	-	Group 2A	-	X

NH <sub>4</sub> NO <sub>3</sub> 6484-52-2				
Borax; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10H <sub>2</sub> O 1303-96-4	-	Group 2A	-	X

**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

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Iron sulphate; FeSO <sub>4</sub> 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 <sub>4</sub> 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.

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

**Other adverse effects** No information available.

## 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.

**DOT (Land)** Not regulated

DOT (AIR) UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII  
 DOT (Vessel) UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII  
 IATA (Air) UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII  
 IMO/IMDG (Vessel) 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:**

Acute health hazard No  
 Chronic Health Hazard No  
 Fire hazard No  
 Sudden release of pressure hazard No  
 Reactive Hazard 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).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	Clean Water Act - Priority Pollutants	Clean Water Act - Hazardous Substances
Iron sulphate; FeSO <sub>4</sub> 7720-78-7	-	-	-	Present
Copper sulphate anhydrous; CuSO <sub>4</sub> 7758-98-7	-	-	-	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).

Chemical name	CERCLA/SARA 313	CERCLA/SARA RQ
Iron sulphate; FeSO <sub>4</sub> 7720-78-7	1000 lb final RQ 454 kg final RQ	-
Copper sulphate anhydrous; CuSO <sub>4</sub> 7758-98-7	10 lb final RQ 4.54 kg final RQ	-

**California Proposition 65:**

This product does not contain any Proposition 65 chemicals

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

State Regulations (RTK): no data available

**U.S. EPA Label information:**

EPA Pesticide Registration Number: Not applied

**16. OTHER INFORMATION**

**NFPA:** Health hazards 2 Flammability 0 Reactivity: 1

**HMIS:** Health hazards - Flammability - Reactivity: 1

**Prepared by** Regulatory Affairs Department  
**Original Issue Date** 08-Jul-2020  
**Last Revision Date** 16-Nov-2023

**Reason for revision** \*\*\* Indicates changes since the last revision. This version replaces all previous versions

**Disclaimer**

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**End of Safety Data Sheet**