



# Safety Data Sheet

Issue Date no data available

Revision Date 22-May-2017

Version: 2

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

### Product Identifier:

**Product Name:** Osmocote Plus Patterned Release Fertilizer with Micronutrients 15-9-12 (3-4M)

### Other Means of Identification:

**Product ID:** A903206C

**Synonyms:** None

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

**Recommended Use:** Fertilizer

**Uses Advised Against:** No information available

### Details of the Supplier of the Safety Data Sheet:

#### Initial Supplier Identifier

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

### Emergency Telephone Numbers:

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

## 2. HAZARDS IDENTIFICATION

### Classification 67/548/EEC

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

### Label Elements:

#### **Hazard statements**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

### Other Information:

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

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	6484-52-2	40-60	-	-
Copper sulphate anh; CuSO <sub>4</sub> 7758-98-7	7758-98-7	<1	-	-
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> 1330-43-4	1330-43-4	<1	-	-

### 4. FIRST AID MEASURES

**First Aid Measures:**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.

**Most Important Symptoms and Effects (Acute and Chronic):**

**Symptoms** No information 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>	No information available.
<b>Specific hazards arising from the chemical</b>	No information available.
<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 Cleanup:

**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.

## 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.

### Appropriate Engineering Controls:

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

### 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

### Physical and Chemical Properties:

Physical State:	Solid
Appearance:	Granules
Color:	brown
Odor:	Fertilizer
Odor Threshold:	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks: • Method</u>
pH:	No information available	No information available
Melting Point/Freezing Point:	No information available	No information available
Boiling Point/Range:	No information available	No information available
Flash Point:	No information available	No information available
Evaporation Rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:	No information available	
Lower Flammability Limit:	No information available	
Vapor Pressure:	No information available	No information available
Vapor Density:	No information available	No information available
Relative density	No information available	No information available
Water Solubility:	No information available	No information available
Solubility in other Solvents:	No information available	No information available
Partition Coefficient:	No information available	No information available
Autoignition Temperature:	No information available	No information available
Decomposition Temperature:	No information available	No information available
Kinematic Viscosity:	No information available	No information available
Dynamic Viscosity:	No information available	No information available
Explosive properties	No information available.	
Oxidizing properties	No information available.	

### Other Information:

Softening Point:	No information available
Molecular Weight:	No information available
VOC Content (%):	No information available
Density:	No information available
Bulk Density:	No information available

## 10. STABILITY AND REACTIVITY

Reactivity:	No information available.
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 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**

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

**ATEmix (oral)** 37,631.00 mg/kg  
**ATEmix (dermal)** 52,015.31 mg/kg

**Unknown acute toxicity** No information available

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> - 6484-52-2	= 2217 mg/kg ( Rat )	Ne	> 88.8 mg/L ( Rat ) 4 h
Copper sulphate anh; CuSO <sub>4</sub> - 7758-98-7	= 300 mg/kg ( Rat )	= 1000 mg/kg ( Rabbit )	Ne
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> - 1330-43-4	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	Ne

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

**Skin corrosion/irritation** No information available.  
**Serious eye damage/eye irritation** No information available.  
**Respiratory or skin sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.

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

Chemical Name	Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> - 1330-43-4
ACGIH - Carcinogens	A4
IARC:	-
NTP Report on Carcinogens List -	-
OSHA	-

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**  
A4 - Not Classifiable as a Human Carcinogen

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information 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
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub> - 6484-52-2	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Copper sulphate anh; CuSO <sub>4</sub> - 7758-98-7	-	0.1: 96 h Oncorhynchus mykiss mg/L LC50	-	0.024: 48 h Daphnia magna mg/L EC50
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> - 1330-43-4	158: 96 h Desmodium subspicatum mg/L	340: 96 h Limanda limanda mg/L LC50	-	1085 - 1402: 48 h Daphnia magna mg/L LC50

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

**Bioaccumulation:** No information available.

**Component Information**

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

**Mobility:** Slightly soluble in water.

## 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

**DOT:** Regulated  
**UN-No:** UN 2071  
**Proper shipping name:** AMMONIUM NITRATE BASED FERTILIZER  
**Hazard Class:** 9  
**Packing group:** III  
**Special Provisions** Only for Aircraft or Vessel

**IATA** Regulated  
**Proper shipping name:** AMMONIUM NITRATE BASED FERTILIZER  
**Hazard Class:** 9  
**Packing group:** III

**IMO / IMDG** Regulated  
**UN-No:** UN 2071  
**Proper shipping name:** AMMONIUM NITRATE BASED FERTILIZER  
**Hazard Class:** 9  
**Packing group:** III

## 15. REGULATORY INFORMATION

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

### International Regulations

Ozone-depleting substances (ODS) Not applied

Persistent Organic Pollutants Not applied

The Rotterdam Convention Not applied

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

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

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Ceiling	Maximum limit value
*	Skin designation		Limit)	

Revision Date 22-May-2017

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.