

Safety Data Sheet

Issue Date: no data available	Revision Date: 08-Sep-2014		Version: 1.02
	1. IDENTIFIC	ATION	
Product Identifier: Product Name: Product Number(s): Formula No.:	Osmocote® Plus 15-9-12, 3-4 G903206 S12716	Month	
Recommended Use of the Chem Description:	ical and Restrictions on Use: Controlled Release Fertilizer		
Company: Everris NA Inc. P.O. Box 3310 Dublin, OH 43016	CH	HOUR EMERGENCY TELEPH EMTREC (U.S.): 1-800-424-93 EMTREC (International): 1-703 n-Emergency Calls: 1-800-492-	300 3-527-3887
	2. HAZARD(S) IDE	NTIFICATION	
OSHA Regulatory Status:	This chemical is not considere Standard (29 CFR 1910.122)	ed hazardous by the 2012 OSH	IA Hazard Communication
Not Hazardous:	Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)		
Label Elements:			
	Emergency O	verview	
The product contains no s	ubstances which at their given cor	ncentration, are considered to l	be hazardous to health
Appearance: granulate	Physical State	: Solid Odor:	Fertilizer
Hazards Not Otherwise Classifie	d (HNOC):		
Other Information:			

Toxic to aquatic life with long lasting effects
 Toxic to aquatic life

Unknown Acute Toxicity: 1.446% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %	Trade Secret
Ammonium Nitrate; NH4NO3	6484-52-2	40-60	*

Potassium sulphate; K2SO4	7778-80-5	20-30	*
Coating	PROPRIETARY	5-10	*
Iron (III) Phosphate	10045-86-0	1-3	*
Copper sulphate anh; CuSO4	7758-98-7	<1	*
Sodium borate; Na2B4O7	1330-43-4	<1	*

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

4. FIRST-AID MEASURES **First Aid Measures:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact Eye 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: 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. Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferabley by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. Ingestion: 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 be 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: Treat symptomatically. Notes to Physician: **5. FIRE-FIGHTING MEASURES** Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam. Specific hazards: Dust clouds may be explosive. 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 In the event of fire, wear self-contained breathing apparatus. Use personal protective Firefighters: 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 Cleanup:

Methods for containment:	Use good housekeeping practices. Cle
Methods for Cleanup:	If material is uncontaminated, collect a

Use good housekeeping practices. Clean up promptly by sweeping or vacuum. 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 Guidelines:

CAS-No	ACGIH:	OSHA:	IDLH:
6484-52-2	N.A.	N.A.	Not Listed
7778-80-5	Not Listed	Not Listed	Not Listed
PROPRIETARY	Not Listed	Not Listed	Not Listed
10045-86-0	1 mg/m³ TWA	Not Listed	Not Listed
7758-98-7	1 mg/m³ TWA	Not Listed	100 mg/m ³ IDLH Cu
1330-43-4	2 mg/m³ TWA	Not Listed	Not Listed
	6484-52-2 7778-80-5 PROPRIETARY 10045-86-0 7758-98-7	6484-52-2 N.A. 7778-80-5 Not Listed PROPRIETARY Not Listed 10045-86-0 1 mg/m³ TWA 7758-98-7 1 mg/m³ TWA	6484-52-2N.A.N.A.7778-80-5Not ListedNot ListedPROPRIETARYNot ListedNot Listed10045-86-01 mg/m³ TWANot Listed7758-98-71 mg/m³ TWANot Listed

Appropriate Engineering Controls:

Engineering Measures to Reduce Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection:	Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses.
Skin and Body Protection:	No special protective clothing is required under normal workplace conditions. If skin irritation occurs, use natural rubber gloves, durable cloth or impervious rubber gloves if contact with product is possible.
Respiratory Protection:	When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.
General hygiene considerations:	Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical State:	Solid
Color:	Tan, brown
Odor:	Fertilizer

Appearance:granulateOdorNo information availableThreshold:

Property	Values	Remarks: • Method
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:	50-70 lbs/cu.ft.	
	10. STABILITY AND REA	CTIVITY
L		
Reactivity:	Stable under normal conditions	
Chemically Stable:	yes.	
Conditions to Avoid:	Damp or wet conditions. Extreme hea	ıt.
Materials to avoid	Oxidizing agent.	
Hazardous Decomposition	Toxic fumes and gases may be gene	rated. Metal oxides possible
Products:	Toxic famos and gases may be gene	

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):

Eye effects:	May cause eye irritation with susceptible persons
Skin effects:	May cause skin irritation in susceptible persons
Ingestion:	Health injuries are not known or expected under normal use.

Inhalation:

Health injuries are not known or expected under normal use.

Component Information:

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH4NO3 6484-52-2	= 2217 mg/kg (Rat)	-	> 88.8 mg/L (Rat)4 h
Potassium sulphate; K2SO4 7778-80-5	= 6600 mg/kg (Rat)	-	-
Copper sulphate anh; CuSO4 7758-98-7	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-
Sodium borate; Na2B4O7 1330-43-4	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

Information on Toxicological Effects:

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

Mutagenic effects	No information a		ash agapay has listed any ingra	diant as a caroinagan
Carcinogenicity: Ingredients	ACGIH - Carcinogens	IARC:	ach agency has listed any ingred NTP Report on Carcinogens List -	OSHA
Sodium borate; Na2B4O7 1330-43-4	A4	-	-	-
Reproductive Toxicity STOT - Single Exposure STOT - Repeated Exposur Aspiration Hazard Numerical Measures of To	No information a No information a No information a	No information available. No information available. No information available. No information available.		
Unknown Acute Toxicity: The following values are c ATEmix (oral):	1.446% of the m	nixture consists of in	gredient(s) of unknown toxicity ocument: .	
	e. oor mg/ng			

37631 mg/kg 52015 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

ATEmix (dermal):

Unknown Aquatic Toxicity:	24.146% of the mixture consists of components(s) of unknown hazards to the aquatic environment
Ecotoxicity effects:	Toxic to aquatic life with long lasting effects.
Persistence and degradability:	Not rapidly degradable.

 Ingredients
 LOGPOW

 Ammonium Nitrate; NH4NO3
 -3.1

Mobility:

Water contaminating.

6484-52-2

Additional ecological information: Contains Molybdenum (Mo). The application of materials containing Molybdenum (Mo) may result in forage crops containing levels of Molybdenum (Mo) which are toxic to ruminant animals. Do not apply directly to lakes, streams, or ponds.

13. DISPOSAL CONSIDERATIONS

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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) DOT (AIR) DOT (Vessel) IATA (Air) IMO/IMDG (Vessel) Not DOT regulated UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII 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)

Ingredients	CWA - Reportable Quantities	CWA - Toxic Pollutants	Clean Water Act - Priority Pollutants	Clean Water Act - Hazardous Substances
Copper sulphate anh; CuSO4 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)

Ingredients	CERCLA/SARA 313	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium Nitrate; NH4NO3 6484-52-2	Not listed	-	
Copper sulphate anh; CuSO4 7758-98-7	10 lb final RQ 4.54 kg final RQ	-	

State Regulations (RTK):

California Proposition 65: U.S. State Right-to-Know Regulations:

U.S. EPA Label information:

EPA Pesticide Registration Number: not applicable

16. OTHER INFORMATION				
NFPA:	Health: 1	Flammability: 0	Reactivity: 1	
HMIS:	Health: 1	Flammability: 0	Reactivity: 1	
Revision Revision	Note:	08-Sep-2014		
Reason f	for revision:	None		

Disclaimer

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End of Safety Data Sheet