Safety Data Sheet

Issue Date: no data available **Revision Date:** 15-Oct-2015 **Version:** 1.01

1. IDENTIFICATION

Product Identifier:

Product Name: Osmocote® Pro 17-5-11, 5-6 Month
Product Number(s): G90180
Formula No.: S14070

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

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

Serious Eye Damage or Eye Irritation	Category 2A
Specific Target Organ Toxicity (Repeated Exposure)	Category 2

Label Elements:

Emergency Overview

Warning

Hazard Statements:
Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposure

Appearance: granulate **Physical State:** Solid **Odor:** Fertilizer

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response
Get medical advice/attention if you feel unwell

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 - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC):

Other Information:
• Causes mild skin irritation
• Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %	Trade Secret
Ammonium Nitrate; NH4NO3	6484-52-2	30-60	*
Potassium sulphate; K2SO4	7778-80-5	10-30	*
Iron sulphate; FeSO4+1H2O	7720-78-7	5-10	*
Di ammonium phosphate; (NH4)2HPO4	7783-28-0	5-10	*
Coating	PROPRIETARY	1-5	*
Manganese sulphate; MnSO4+1H2O	7785-87-7	1-5	*
Copper sulphate anh; CuSO4	7758-98-7	<1	*
Zinc Sulfate anh; ZnSO4	7733-02-0	<1	*

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

4. FIRST-AID MEASURES

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: 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:

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam.

Unsuitable extinguishing media: No information available.

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 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. Do not inhale dust/mist. Avoid contact with skin.

Environmental Precautions: Prevent product from entering drains. Avoid subsoil penetration.

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. Avoid breathing vapors or mists. Avoid contact with skin. Avoid dust formation. Keep out of reach of children and pets. Keep out of lakes, streams or ponds.

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: .

Ingredients	CAS-No	ACGIH:	OSHA:	IDLH:
Ammonium Nitrate; NH4NO3	6484-52-2	N.A.	N.A.	Not Listed
Potassium sulphate; K2SO4	7778-80-5	Not Listed	Not Listed	Not Listed
Iron sulphate; FeSO4+1H2O	7720-78-7	1 mg/m³ TWA	Not Listed	Not Listed
Di ammonium phosphate; (NH4)2HPO4	7783-28-0	Not Listed	Not Listed	Not Listed
Coating	PROPRIETARY	Not Listed	Not Listed	Not Listed
Manganese sulphate; MnSO4+1H2O	7785-87-7	0.1 mg/m³ TWA	Not Listed	500 mg/m³ IDLH Mn
Copper sulphate anh; CuSO4	7758-98-7	1 mg/m³ TWA	Not Listed	100 mg/m³ IDLH Cu
Zinc Sulfate anh; ZnSO4	7733-02-0	Not Listed	Not Listed	Not Listed

Appropriate Engineering Controls:

Engineering Measures to Reduce Exposure: 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: Safety glasses with side shields or goggles.

Skin and Body Protection: Wear suitable protective clothing if contact is anticipated during manufacturing. impervious gloves. Impervious clothing.

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: Multi-colored
Odor: Fertilizer

Appearance: granulate
Odor Threshold: No information available

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: 60-75 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 Oxidizing agent.

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):

Eye effects: Causes serious eye irritation

Skin effects: May cause skin irritation and/or dermatitis

Ingestion: Health injuries are not known or expected under normal use.

Inhalation: Harmful by inhalation.

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)	-	-
Iron sulphate; FeSO4+1H2O 7720-78-7	= 500 mg/kg (Rat)	-	-
Di ammonium phosphate; (NH4)2HPO4 7783-28-0	= 6500 mg/kg (Rat)	> 7950 mg/kg (Rabbit)	-
Manganese sulphate; MnSO4+1H2O 7785-87-7	= 782 mg/kg (Rat)	-	-
Copper sulphate anh; CuSO4 7758-98-7	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-
Zinc Sulfate anh; ZnSO4 7733-02-0	= 500 mg/kg (Rat)	-	-

Information on Toxicological Effects:

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

Mutagenic effects No information available.
Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive Toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard No information available.

Numerical Measures of Toxicity - Product Information:

The following values are calculated based on chapter 3.1 of the GHS document: .
ATEmix (oral): 5726 mg/kg
ATEmix (dermal): 74491 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Unknown Aquatic Toxicity: 10.42% 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 6484-52-2	-3.1

Mobility: Slightly water contaminating.

Additional ecological information: Do not apply directly to lakes, streams, or ponds. 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.

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 DOT 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)

Ingredients	CWA - Reportable Quantities	CWA - Toxic Pollutants	Clean Water Act - Priority Pollutants	Clean Water Act - Hazardous Substances
Iron sulphate; FeSO4+1H2O 7720-78-7	-	-	-	Present
Copper sulphate anh; CuSO4 7758-98-7	-	-	-	Present
Zinc Sulfate anh; ZnSO4 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	Reportable Quantity (RQ)
Ammonium Nitrate; NH4NO3 6484-52-2	Not listed	-	--
Iron sulphate; FeSO4+1H2O 7720-78-7	1000 lb final RQ 454 kg final RQ	-	--
Copper sulphate anh; CuSO4 7758-98-7	10 lb final RQ 4.54 kg final RQ	-	--
Zinc Sulfate anh; ZnSO4 7733-02-0	1000 lb final RQ 454 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:** 2	**Flammability:** 0	**Reactivity:** 1
HMIS:	**Health:** 2	**Flammability:** 0	**Reactivity:** 1

Revision Date: 15-Oct-2015
Revision Note:
Reason for revision: None
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End of Safety Data Sheet