



Safety Data Sheet

Issue Date: no data available

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Version: 1

1. IDENTIFICATION

Product Identifier:

Product Name: Osmocote® Blend 17-5-11; 8-9M
Product Number(s): A90181
Formula No.: S14071

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 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:

Warning

Hazard Statements:

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



Appearance: Granules

Physical State: Solid

Odor: Fertilizer

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear eye protection/ 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):

Not Applicable

Other Information:

Causes mild skin irritation Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %	Trade Secret
Ammonium Nitrate; NH_4NO_3	6484-52-2	30-60	*
Iron sulphate; $\text{FeSO}_4 \cdot \text{H}_2\text{O}$	7720-78-7	5-10	*
Manganese sulphate; $\text{MnSO}_4 \cdot \text{H}_2\text{O}$	7785-87-7	1-3	*
Copper sulphate anh; CuSO_4	7758-98-7	<1	*
Zinc Sulfate anh; ZnSO_4	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, preferably 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 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

Suitable extinguishing media:

Water spray, carbon dioxide, dry chemical, chemical foam.

Unsuitable extinguishing media:

High volume water jet.

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. Avoid dust formation. Do not inhale dust/mist.

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 dust formation. Avoid inhalation of dust.

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.

Ingredients	ACGIH TLV	OSHA:	IDLH:
Ammonium Nitrate; NH_4NO_3 6484-52-2	-	N.A.	-
Manganese sulphate; $\text{MnSO}_4 \cdot \text{H}_2\text{O}$ 7785-87-7	-	-	500 mg/m ³ IDLH Mn
Copper sulphate anh; CuSO_4 7758-98-7	-	-	100 mg/m ³ IDLH Cu

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:

Physical State:	Solid	Appearance:	granulate
Color:	brown, Tan	Odor	No information available
Odor:	Fertilizer	Threshold:	

<u>Property</u>	<u>Values</u>	<u>Remarks: • Method</u>
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:	60-65 lbs/cu.ft.

10. STABILITY AND REACTIVITY

<u>Reactivity:</u>	Stable under normal conditions
<u>Chemically Stable:</u>	yes.
<u>Conditions to Avoid:</u>	Damp or wet conditions. Extreme heat.
<u>Materials to avoid</u>	Oxidizing agent.
<u>Hazardous Decomposition Products:</u>	Toxic fumes and gases may be generated. Metal oxides possible.
<u>Possibility of Hazardous Reactions:</u>	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

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

Oral LD50 6,156.00 mg/kg

Unknown Acute Toxicity: No information available

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2	= 2217 mg/kg (Rat)	-	> 88.8 mg/L (Rat) 4 h
Iron sulphate; FeSO ₄ +1H ₂ O 7720-78-7	= 500 mg/kg (Rat)	-	-
Manganese sulphate; MnSO ₄ +1H ₂ O 7785-87-7	= 782 mg/kg (Rat)	-	-
Copper sulphate anh; CuSO ₄ 7758-98-7	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-
Zinc Sulfate anh; ZnSO ₄ 7733-02-0	= 1710 mg/kg (Rat)	-	-

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.
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.

Ingredients	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Iron sulphate; FeSO ₄ +1H ₂ O 7720-78-7	-	925: 96 h Poecilia reticulata mg/L LC50 static 0.56: 96 h Cyprinus carpio mg/L LC50 semi-static	-	152: 48 h Daphnia magna mg/L EC50 6.15 - 9.26: 48 h Daphnia magna mg/L EC50 Static
Copper sulphate anh; CuSO ₄ 7758-98-7	-	0.1: 96 h Oncorhynchus mykiss mg/L LC50	-	0.024: 48 h Daphnia magna mg/L EC50
Zinc Sulfate anh; ZnSO ₄ 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 ₄ NO ₃ 6484-52-2	-3.1

Mobility: Slightly 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.

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

International Inventories:

TSCA	This product does not comply with USINV
DSL/NDSL	DSL/NDSL
EINECS/ELINCS	EINECS/ELINCS
ENCS	This product does not comply with encs:
CHINA	This product does not comply with china:
KOREA	KOREA
PICCS	PICCS
Australian Inventory of Chemical Substances	This product does not comply with AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

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; FeSO ₄ +1H ₂ O 7720-78-7	-	-	-	Present
Copper sulphate anh; CuSO ₄ 7758-98-7	-	-	-	Present
Zinc Sulfate anh; ZnSO ₄ 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 ₄ NO ₃ 6484-52-2	Not listed	-
Iron sulphate; FeSO ₄ +1H ₂ O 7720-78-7	1000 lb final RQ 454 kg final RQ	-
Copper sulphate anh; CuSO ₄ 7758-98-7	10 lb final RQ 4.54 kg final RQ	-
Zinc Sulfate anh; ZnSO ₄ 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:

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: 12-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