



Safety Data Sheet

Issue Date: no data available

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Version: 1

1. IDENTIFICATION

Product Identifier:

Product Name: Osmocote ® Blend 18-5-12; 8-9M
Product Number(s): A98605
Formula No.: S10858

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

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Label Elements:

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance: Granules

Physical State: Solid

Odor: Not significant

Hazards Not Otherwise Classified (HNOC):

Not applied

Other Information:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Ammonium Nitrate; NH_4NO_3	6484-52-2	30-55	*
Potassium sulphate; K_2SO_4	7778-80-5	10-30	*
Di ammonium phosphate; $(\text{NH}_4)_2\text{HPO}_4$	7783-28-0	5-10	*
Coating	PROPRIETARY	5-10	*
Iron sulphate; $\text{FeSO}_4 \cdot \text{H}_2\text{O}$	7720-78-7	<1	*
Zinc Sulfate anhydrous; ZnSO_4	7733-02-0	<1	*
Zinc oxide; ZnO	1314-13-2	<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

<u>Suitable Extinguishing Media</u>	Water spray, carbon dioxide, dry chemical, chemical foam.
<u>Unsuitable extinguishing media:</u>	High volume water jet.
<u>Specific hazards:</u>	Dust clouds may be explosive.
<u>Hazardous Combustion Products:</u>	Combustion can produce toxic fumes and irritating gases.

Explosion Data:

Sensitivity to Mechanical Impact:

no data available.

Sensitivity to Static Discharge:

no data available.

<u>Special Protective Equipment for Firefighters:</u>	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal Precautions:	Wear personal protective equipment.
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.

Conditions for Safe Storage, Including any Incompatibilities:

Storage: Store in a cool, dry area away from incompatible materials and heat sources.

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:	IDLH:
Ammonium Nitrate; NH_4NO_3 6484-52-2	-	N.A.	-
Potassium sulphate; K_2SO_4 7778-80-5	-	Not Listed	-
Zinc oxide; ZnO 1314-13-2	-	5 mg/m ³ TWA 15 mg/m ³ TWA	500 mg/m ³ IDLH

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
Multi-colored
Not significant

Color:

Appearance: Granules

Odor:

Odor: No information available

Threshold:

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:	55-65 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>	Combustible material. Oxidizing agent. Reducing agents.
<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.
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Numerical Measures of Toxicity

Acute Toxicity

Unknown Acute Toxicity:	No information available
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH_4NO_3 6484-52-2	= 2217 mg/kg (Rat)	-	> 88.8 mg/L (Rat) 4 h
Potassium sulphate; K_2SO_4 7778-80-5	= 6600 mg/kg (Rat)	-	-
Di ammonium phosphate; $(\text{NH}_4)_2\text{HPO}_4$ 7783-28-0	= 6500 mg/kg (Rat)	> 7950 mg/kg (Rabbit)	-
Iron sulphate; $\text{FeSO}_4 \cdot 1\text{H}_2\text{O}$ 7720-78-7	= 500 mg/kg (Rat)	-	-
Zinc Sulfate anh; ZnSO_4 7733-02-0	= 1710 mg/kg (Rat)	-	-
Zinc oxide; ZnO 1314-13-2	> 5000 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.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ammonium Nitrate; NH_4NO_3 6484-52-2	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Potassium sulphate; K_2SO_4 7778-80-5	2900: 72 h Desmodesmus subspicatus mg/L EC50	653: 96 h Lepomis macrochirus mg/L LC50 3550: 96 h Lepomis macrochirus mg/L LC50 static 510 - 880: 96 h Pimephales promelas mg/L LC50 static	-	890: 48 h Daphnia magna mg/L EC50
Di ammonium phosphate; $(\text{NH}_4)_2\text{HPO}_4$ 7783-28-0	-	26.5: 96 h Oncorhynchus mykiss mg/L LC50 24.8 - 29.4: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 3.3: 96 h Pimephales promelas mg/L LC50 33: 96 h Pimephales promelas	-	-

		mg/L LC50 static		
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.

Chemical Name	LOGPOW
Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2	-3.1

Mobility: 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

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 ₄ +1H ₂ O 7720-78-7	-	-	-	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).

Chemical Name	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	-
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 applied

16. OTHER INFORMATION

<u>NFPA:</u>	Health: 1	Flammability: 0	Reactivity: 1
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<u>HMIS:</u>	Health: 1	Flammability: 0	Reactivity: 1
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Revision Date: 02-Oct-2017

Revision Note:

Reason for revision: None

Disclaimer

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End of Safety Data Sheet