Safety Data Sheet



Issue Date: no data available Revision Date: 12-Aug-2016 Version: 1

1. IDENTIFICATION

Product Identifier:

Product Name: Osmocote® Blend 19-5-9; 12-14M

Product Number(s): A901326 Formula No.: S11796

Recommended Use of the Chemical and Restrictions on Use:

Description: Controlled Release Fertilizer

Company: 24-HOUR EMERGENCY TELEPHONE NUMBERS:

 Everris NA Inc.
 CHEMTREC (U.S.): 1-800-424-9300

 P.O. Box 3310
 CHEMTREC (International): 1-703-527-3887

 Dublin, OH 43016
 Non-Emergency Calls: 1-800-492-8255

2. HAZARD(S) IDENTIFICATION

Classification 67/548/EEC

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:No informationPhysical State:SolidOdor:No information available

available

Hazards Not Otherwise Classified (HNOC):

Not Applicable

Other Information:

Causes mild skin irritation Harmful to aquatic life with long lasting effects Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %	Trade Secret
Ammonium Nitrate; NH4NO₃	6484-52-2	30-40	*
Potassium sulphate; K ₂ SO ₄	7778-80-5	10-30	*
Di ammonium phosphate; (NH ₄) ₂ HPO ₄	7783-28-0	5-10	*
Coating	PROPRIETARY	5-10	*
Sulphur; S	7704-34-9	1-5	*
Iron Oxide; Fe2O₃	1309-37-1	1-3	*

12-14181

Iron sulphate; FeSO ₄ +1H ₂ O	7720-78-7	<1	*
Zinc Sulfate anh; 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

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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

<u>Suitable extinguishing media:</u> 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.

Environmental Precautions: Prevent product from entering drains.

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 contact with skin. Keep out of reach of children and pets.

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; NH₄NO₃ 6484-52-2	-	N.A.	-
Potassium sulphate; K ₂ SO ₄ 7778-80-5	-	Not Listed	-
Iron Oxide; Fe ₂ O ₃ 1309-37-1	-	10 mg/m³ TWA 15 mg/m³ TWA Rouge 5 mg/m³ TWA Rouge	2500 mg/m³ IDLH Fe
Zinc oxide; ZnO 1314-13-2	-	5 mg/m³ TWA 15 mg/m³ TWA	500 mg/m³ 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 protectionNo special protective equipment required.

Respiratory protectionNo 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

Color: Multi-colored Appearance: granulate

Odor: oily Odor No information available

Threshold:

<u>Property</u> <u>Values</u> <u>Remarks: • Method</u>

pH: No information availableMelting Point/Freezing Point: No information available

Boiling Point/Range: No information available Flash Point: No information available No information available **Evaporation Rate:** 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

Other Information:

Explosive Properties:

Oxidizing Properties:

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

Bulk density: 55-65 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):

No information available

Not considered an oxidizer

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Specific test data for the substance or mixture is not available. Eye contact

Skin Contact Specific test data for the substance or mixture is not available.

Specific test data for the substance or mixture is not available. Ingestion

Information on Toxicological Effects:

No information available. **Symptoms**

Numerical Measures of Toxicity

Acute Toxicity

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

Unknown Acute Toxicity: No information available

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; K ₂ SO ₄ 7778-80-5	= 6600 mg/kg (Rat)	-	-
Di ammonium phosphate; (NH4) ₂ HPO ₄ 7783-28-0	= 6500 mg/kg (Rat)	> 7950 mg/kg (Rabbit)	-
Sulphur; S 7704-34-9	> 3000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9.23 mg/L (Rat)4 h
Iron Oxide; Fe ₂ O ₃ 1309-37-1	> 10000 mg/kg (Rat)	-	-
Iron sulphate; FeSO ₄ +1H ₂ 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/irritationNo information available.Serious eye damage/eye irritationNo information available.Respiratory or skin sensitizationNo information available.

Germ Cell Mutagenicity No information available.

Carcinogenicity No information available.

<u> </u>				
Ingredients	ACGIH - Carcinogens	IARC:	NTP Report on Carcinogens List -	OSHA
Iron Oxide; Fe ₂ O ₃ 1309-37-1	A4	3	-	-

Reproductive Toxicity

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;	-	65 - 85: 48 h Cyprinus	-	-

NH-NO					
Potassium sulphate;					
K:SO4 7778-80-5 Desmodesmus subspicatus mg/L ECS0 3550: 96 h Lepomis macrochirus mg/L LCS0 static 510 - 880: 96 h Pimephales promelas mg/L LC50 static 26.5: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 3.3: 96 h Pimephales promelas mg/L LC50 static Sulphur; S 7704-34-9 Sulphur; S 7704-34-9 Soft in Brachydanio rein mg/L LC50 static 16: 96 h Lepomis macrochirus mg/L LC50 static 160: 96 h Pimephales promelas mg/L LC50 static 16: 96 h Lepomis macrochirus mg/L LC50 static 160: 96 h Oncorhynchus mykiss mg/L LC50 static 16: 96 h Lepomis macrochirus mg/L LC50 static 160: 96 h Oncorhynchus mykiss mg/L LC50 static 06: 96 h Cyprinus carpio mg/L LC50 static 06: 96 h Cyprinus carpio mg/L LC50 static 06: 96 h Cyprinus carpio mg/L LC50 static 06: 96 h Chiorella vulgaris mg/L EC50 static 64: 27 2 h Chlorella vulgaris mg/L EC50 static 64: 27 2 h Chlorella vulgaris mg/L EC50 static 64: 27 2 h Chlorella vulgaris mg/L EC50 static 64: 27 2 h Chlorella vulgaris mg/L EC50 static 64: 27 2 h Chlorella vulgaris mg/L EC50 static 06: 58 h Pimephales promelas mg/L LC50 static 07: 58 h Chlorella reticulata mg/L LC50 static 07: 58 h Ch					
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Pimephales promelas mg/L LC50 static					
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semi-static 16.85 - 27.18: 96 h Cyprinus carpio mg/L LC50 static 3 - 4.6: 96 h Lepomis					
96 h Cyprinus carpio mg/L LC50 static 3 - 4.6: 96 h Lepomis					
mg/L LC50 static 3 - 4.6: 96 h Lepomis					
96 h Lepomis					

flow-through 3.55 - 6.32:	
96 h Lepomis	
macrochirus mg/L LC50	
static 0.63: 96 h Poecilia	
reticulata mg/L LC50	

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

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

Mobility: Slightly water contaminating.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Disposal should be in accordance with applicable regional, national and local laws and **Disposal of Wastes:**

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

UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII DOT (AIR) DOT (Vessel) UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII IATA (Air) IMO/IMDG (Vessel) UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII

15. REGULATORY INFORMATION

International Inventories:

This product does not comply with USINV **TSCA**

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 This product does not comply with AICS

Substances

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	CWA - Toxic Pollutants	Clean Water Act - Priority	Clean Water Act -
	Quantities		Pollutants	Hazardous Substances
Iron sulphate;	-	-	-	Present
FeSO ₄ +1H ₂ O				
7720-78-7				
Zinc Sulfate anh; ZnSO ₄	-	-	-	Present
7733-02-0				

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; NH4NO3	Not listed	-
6484-52-2		
Iron sulphate; FeSO ₄ +1H ₂ O	1000 lb final RQ	-
7720-78-7	454 kg final RQ	
Zinc Sulfate anh; ZnSO ₄	1000 lb final RQ	-
7733-02-0	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

A901326 Osmocote® Blend 19-5-9; 12-14M

Revision Date: 12-Aug-2016

NFPA: Health: 1 Flammability: 0 Reactivity: 1

HMIS: Health: 1 Flammability: 0 Reactivity: 1

Revision Date: 12-Aug-2016

Revision Note:

Reason for revision: None

Disclaimer

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End of Safety Data Sheet