



Safety Data Sheet

Last Revision Date 01-Dec-2022

Version: 2

1. IDENTIFICATION

Product identifier

Product Name: Osmocote® Plus 15-9-12; 3-4M
Product Number(s): A903206
Formula No.: S14310

Description: Controlled release fertilizer

Recommended use of the chemical and restrictions on use

Restricted to professional users

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: Fertilizer

Hazards Not Otherwise Classified (HNOC):

Not applied

Other Information

Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	Trade Secret
Ammonium nitrate; NH ₄ NO ₃	6484-52-2	40 - 50%	*
Iron (III) phosphate (US)	10045-86-0	1 - 5%	*
Sodium borate; Na ₂ B ₄ O ₇	1330-43-4	0.1 - 1%	*

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

4. FIRST-AID MEASURES

Description of 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:	Call a poison control center or doctor for treatment advice. Take off contaminated clothing. Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a POISON CENTER or doctor.
Ingestion:	Call a physician or Poison Control Centre immediately. Do not induce vomiting without medical advice. Never 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>	Carbon dioxide (CO ₂). Dry chemical. Water spray. Chemical foam.
<u>Unsuitable Extinguishing Media:</u>	High volume water jet.
<u>Specific hazards:</u>	Dust may form explosive mixture in air.
<u>Hazardous Combustion Products</u>	Combustion can produce toxic fumes and irritating gases.
<u>Explosion Data:</u>	
Sensitivity to Mechanical Impact:	no data available.
Sensitivity to Static Discharge:	no data available.
<u>Special Protective Equipment for Firefighters:</u>	Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

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 cleaning up

Methods for containment: Follow good housekeeping practices.
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: 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.

Chemical name	ACGIH TLV	OSHA:	ACGIH:	IDLH:
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2	-	N.A.	N.A.	-
Sodium borate; Na ₂ B ₄ O ₇ 1330-43-4	TWA: 2 mg/m ³ inhalable particulate matter STEL: 6 mg/m ³ inhalable particulate matter	-	2 mg/m ³ TWA	-

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash. Showers.

Individual protection measures, such as personal protective equipment

Eye/face Protection Wear safety glasses with side shields (or goggles).

Hand Protection Neoprene gloves.

Skin and body protection Lightweight protective clothing.

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

Information on basic physical and chemical properties

Physical state Solid
Color: Brown, tan
Appearance: granulate
Odor: Fertilizer

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	No data available	
Melting Point/Freezing Point:	Not applicable	
Boiling Point/Range:	No data available	
Flash Point:	No data available	
Evaporation Rate:	no data available	
Flammability (solid, gas):	No data available	
Flammability Limits in Air:		
Upper Flammability Limit:	No data available	
Lower Flammability Limit:	No data available	
Vapor Pressure:	No data available	
Vapour density	No data available	
Relative density	no data available	
Solubility:	no data available	

Solubility in other Solvents: no data available
Partition Coefficient: no data available
Autoignition Temperature: No data available
Hyphen no data available
Kinematic Viscosity: No data available
Dynamic Viscosity: no data available
Explosive Properties: no data available
Oxidizing Properties: Not considered an oxidizer

Other information

Softening Point: no data available
Molecular Weight: no data available
VOC content No data available
Density: no data available
Bulk density: 50-70 lbs/cu.ft.

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions
Remarks:

Chemically Stable: Stable under recommended storage conditions.
Conditions to Avoid: Protect from extremes of temperature.
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 likely routes of exposure

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.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms no data available.

Numerical measures of toxicity

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

Oral LD50 37,631.00 mg/kg
Dermal LD50 52,015.31 mg/kg

Unknown Acute Toxicity: no data available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate; NH ₄ NO ₃	= 2217 mg/kg (Rat)	> 5000 mg/kg	> 88.8 mg/L (Rat) 4 h

6484-52-2			
Sodium borate; Na ₂ B ₄ O ₇ 1330-43-4	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2 mg/m ³ (Rat) 4 h

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

Skin corrosion/irritation no data available.

Serious eye damage/eye irritation no data available.

Respiratory or skin sensitization no data available.

Germ Cell Mutagenicity no data available.

Carcinogenicity no data available.

Chemical name	ACGIH	IARC	NTP	OSHA
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2	-	Group 2A	-	X

Reproductive Toxicity no data available.

STOT - Single Exposure no data available.

STOT - Repeated Exposure no data available.

Aspiration Hazard no data available.

12. ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium borate; Na ₂ B ₄ O ₇ 1330-43-4	158: 96 h Desmodesmus subspicatus mg/L	LC50: =340mg/L (96h, Limanda limanda)	-	LC50: 1085 - 1402mg/L (48h, Daphnia magna)

Persistence and Degradability: no data available.

Bioaccumulation No information available.

Chemical name	Partition coefficient
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2	-3.1

Other adverse effects No information available.

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).

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	-

California Proposition 65:

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations:

State Regulations (RTK): no data available

U.S. EPA Label information:

EPA Pesticide Registration Number: Not applied

16. OTHER INFORMATION

<u>NFPA:</u>	Health hazards 3	Flammability 2	Reactivity: 1
<u>HMIS:</u>	Health hazards -	Flammability 2	Reactivity: 1

Prepared by Regulatory Affairs Department

Last Revision Date 01-Dec-2022

Reason for revision *** Indicates changes since the last revision. This version replaces all previous versions

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End of Safety Data Sheet