

MATERIAL SAFETY DATA SHEET

 Date stamp:
 28-Sep-2012
 MSDS Ref. No.: E901326
 Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Osmocote Pro 19-5-9 12-14M **Description:** Controlled Release Fertilizer

Company

Everris NA Inc. P.O. Box 3310 Dublin, OH 43016

Formula No.: S11796

Product Number(s): E901326

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. HAZARDS IDENTIFICATION

Labelling

Signal word: CAUTION

<u>Precautionary Statements</u> Do not ingest. Do not inhale. Keep out of reach of children and domestic animals.

Potential health effects

Eye contact: Contact with eyes may cause irritation.

Skin contact: Irritation not expected.

Ingestion: Considered practically non-toxic. Possible gastrointestinal tract irritation.

Inhalation: May cause irritation of respiratory tract.

Aggravated Medical Conditions: Inhalation may aggravate asthma.

Principle routes of exposure: Skin, Inhalation, Ingestion

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %
Ammonium Nitrate, NH4NO3	6484-52-2	30-60
Potassium sulphate, K2SO4	7778-80-5	10-30
Urea	57-13-6	10-30
Ammonium phosphate	7722-76-1	5-10
Calciumphosphate, Ca3(PO4)2	7758-87-4	3-7
Magnesium sulphate anhydrous, MgSO4	7487-88-9	0.1-1
Magnesium oxide, MgO	1309-48-4	0.1-1
Iron Oxide, Fe2O3	1309-37-1	0.1-1
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	0.1-1
Manganese sulphate, MnSO4	7785-87-7	0.1-1
Copper sulphate anhydrous, CuSO4+0H2O	7758-98-7	0.1-1
Copper Oxide, CuO	1317-38-0	0.1-1
Manganese Oxide, MnO	1344-43-0	0.1-1
Zinc Sulfate Anhydrous	7733-02-0	0.1-1

4. 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

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

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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

5. FIRE-FIGHTING MEASURES

Flammable properties: Decomposes on heating. May burn under fire conditions.

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

Explosion potential: Dust clouds may be explosive.

Explosive properties: No explosion risk.

Hazardous combustion products:

Fire fighting procedures:

Special protective equipment for

Combustion can produce toxic fumes and irritating gases.

Select appropriate method to surround and extinguish fire
In the event of fire, wear self-contained breathing apparatus

firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear personal protective equipment Environmental precautions: Prevent product from entering drains

Methods for containment:

Methods for cleaning up:

Use good housekeeping practices. Clean up promptly by sweeping or vacuum. If material is uncontaminated, collect and reuse as recommended for product.

7. HANDLING AND STORAGE

Handling: Avoid container breakage

Storage: Keep containers tightly closed in a cool, well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	ACGIH:	OSHA:
Urea	Not Listed	Not Listed
Potassium sulphate, K2SO4	Not Listed	Not Listed
Ammonium phosphate	Not Listed	Not Listed
Calciumphosphate, Ca3(PO4)2	Not Listed	Not Listed
Magnesium oxide, MgO	10 mg/m³ TWA	15 mg/m ³ TWA total
Ferrous Sulfate Monohydrate (Iron Sulfate)	1 mg/m³ TWA	Not Listed
Manganese sulphate, MnSO4	0.2 mg/m³ TWA	Not Listed
Zinc Sulfate Anhydrous	Not Listed	Not Listed
Magnesium sulphate anhydrous, MgSO4	Not Listed	Not Listed
Manganese Oxide, MnO	0.2 mg/m ³ TWA	Not Listed
Iron Oxide, Fe2O3	5 mg/m³ TWA	10 mg/m³ TWA
Copper Oxide, CuO	Not Listed	Not Listed
Copper sulphate anhydrous, CuSO4+0H2O	Not Listed	Not Listed
Ammonium Nitrate, NH4NO3	N.A.	N.A.

Engineering controls

Use adequate ventilation to keep the airborne concentrations of this material below the recommended

exposure standard

Personal Protective Equipment

Eye/face protection Eye/face protection is not required, but is recommended in manufacturing situations where contact may

occu

Skin and body protection: Wear suitable protective clothing if contact is anticipated during manufacturing. impervious gloves.

Respiratory protection: If airborne levels are high or product does not remain intact, use a combination of engineering controls

(e.g. ventilation) and personal protection, e.g., NIOSH/MSHA approved respirator for dusts, mists, and fumes

fume

General hygiene considerations: Wash hands before breaks and immediately after handling the product

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Color: Tan

Bulk density: 55-65 lbs/cu.ft. **Flash point:** Not applicable

Appearance: Granular Odor: oily

10. STABILITY AND REACTIVITY

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

Acute toxicity

Eye effects: Contact with eyes may cause irritation Skin effects: May cause skin irritation and/or dermatitis

Chronic toxicity

Carcinogenic effects: The table below indicates whether each agency has listed any ingredient as a carcinogen .

Ingredients	NTP:	IARC:	OSHA:
Urea	Not listed	Not listed	Not listed
Potassium sulphate, K2SO4	Not listed	Not listed	Not listed
Ammonium phosphate	Not listed	Not listed	Not listed
Calciumphosphate, Ca3(PO4)2	Not listed	Not listed	Not listed
Magnesium oxide, MgO	Not listed	Not listed	Not listed
Ferrous Sulfate Monohydrate (Iron Sulfate)	Not listed	Not listed	Not listed
Manganese sulphate, MnSO4	Not listed	Not listed	Not listed
Zinc Sulfate Anhydrous	Not listed	Not listed	Not listed
Magnesium sulphate anhydrous, MgSO4	Not listed	Not listed	Not listed
Manganese Oxide, MnO	Not listed	Not listed	Not listed
Iron Oxide, Fe2O3	Not listed	3	Not listed
Copper Oxide, CuO	Not listed	Not listed	Not listed
Copper sulphate anhydrous, CuSO4+0H2O	Not listed	Not listed	Not listed
Ammonium Nitrate, NH4NO3	Not listed	Not listed	Not listed

General Information Very low toxicity for humans and animals

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

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:No data is available on the product itself.

Persistence and degradability:

Inherently biodegradable. Non-persistent.

Bioaccumulative potential:

Mobility:

Aquatic toxicity:

Does not bioaccumulate.

Slightly water contaminating.

May be beneficial to plant life.

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

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Apply as fertilizer to field. Dispose of in accordance with local regulations and national regulations.

Contaminated packaging: Do not re-use empty containers. If empty, place in trash or offer for recycling if available.

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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

15. REGULATORY INFORMATION

Ingredients	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Urea	57-13-6	Not Listed	Not Listed
Potassium sulphate, K2SO4	7778-80-5	Not Listed	Not Listed
Ammonium phosphate	7722-76-1	Not Listed	Not Listed
Calciumphosphate, Ca3(PO4)2	7758-87-4	Not Listed	Not Listed
Magnesium oxide, MgO	1309-48-4	Not Listed	Not Listed
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	1000 lb final RQ	Not Listed
, , ,		454 kg final RQ	
Manganese sulphate, MnSO4	7785-87-7	Not Listed	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	1000 lb final RQ	Not Listed
•		454 kg final RQ	
Magnesium sulphate anhydrous, MgSO4	7487-88-9	Not Listed	Not Listed
Manganese Oxide, MnO	1344-43-0	Not Listed	Not Listed
Iron Oxide, Fe2O3	1309-37-1	Not Listed	Not Listed
Copper Oxide, CuO	1317-38-0	Not Listed	Not Listed
Copper sulphate anhydrous, CuSO4+0H2O	7758-98-7	10 lb final RQ	Not Listed
		4.54 kg final RQ	
Ammonium Nitrate, NH4NO3	6484-52-2	Not listed	Not Listed

General Information

Contact local authorities for disposal of large quantities of product

16. OTHER INFORMATION

NFPA:Health: 2Flammability: 1Reactivity: 0HMIS:Health: ---Flammability: ---Reactivity: ---

Hazard Rating: 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

General comment: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

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