

MATERIAL SAFETY DATA SHEET

24-HOUR EMERGENCY TELEPHONE NUMBERS:

MSDS Ref. No.: E903226 Date stamp: 24-Sep-2013 Revision Number: 1.01

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Osmocote Plus 15-9-12. 5-6 Months

Description: Controlled Release Fertilizer

Company Everris NA Inc. P.O. Box 3310

Formula No.: S14311 Product Number(s): E903226

CHEMTREC (U.S.): 1-800-424-9300 CHEMTREC (International): 1-703-527-3887 Dublin, OH 43016 Non-Emergency Calls: 1-800-492-8255

2. Hazards Identification

Labelling

Signal Word:

precautionary statements
Potential Health Effects

Do not ingest. Do not inhale. Keep out of reach of children and domestic animals.

Contact with eyes may cause irritation. Eye contact:

Skin contact: Irritation not expected.

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

May cause irritation of respiratory tract. inhalation: **Aggravated Medical Conditions:** Inhalation may aggravate asthma.

skin, EYES, Inhalation Principle routes of exposure:

Target Organ Effects: irritation.

3. Composition/information on Ingredients

Ingredients	CAS-No	Weight %
Ammonium Nitrate; NH4NO3	6484-52-2	30 - 40
Potassium sulphate; K2SO4	7778-80-5	10 - 30
Ammonium phosphate (US)	7722-76-1	10 - 30
Potassium Nitrate; KNO3	7757-79-1	10 - 30
Ammonium sulphate; (NH4)2SO4	7783-20-2	5 - 10
Calcium phosphate; Ca3(PO4)2	7758-87-4	5 - 10
Magnesium sulphate anhydrous; MgSO4	7487-88-9	1 - 5
Calcium Carbonate; CaCO3	471-34-1	1 - 5
Magnesium oxide; MgO	1309-48-4	1 - 5
Iron EDTA; Fe-EDTA	15708-41-5	1 - 5
Potassium chloride; KCI	7447-40-7	1 - 5
Iron sulphate; FeSO4+7H2O	7782-63-0	0.1 - 1
Manganese sulphate; MnSO4+1H2O	7785-87-7	0.1 - 1
Boric Acid; H3BO3	10043-35-3	0.1 - 1
Sodium molybdate; Na2MoO4+2H2O	7631-95-0	< 0.1
Zinc Sulfate Anhydrous	7733-02-0	< 0.1
Copper sulphate anh; CuSO4	7758-98-7	< 0.1
Zinc oxide; ZnO	1314-13-2	< 0.1

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.

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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.

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of Ingestion:

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.

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.

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

Explosion potential: Dust clouds may be explosive.

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.

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

7. Handling and Storage

Handling: Avoid container breakage.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	CAS-No	ACGIH:	OSHA:
Ammonium Nitrate; NH4NO3	6484-52-2	N.A.	N.A.
Potassium sulphate; K2SO4	7778-80-5	Not Listed	Not Listed
Ammonium phosphate (US)	7722-76-1	Not Listed	Not Listed
Potassium Nitrate; KNO3	7757-79-1	Not Listed	Not Listed
Ammonium sulphate; (NH4)2SO4	7783-20-2	Not Listed	Not Listed
Calcium phosphate; Ca3(PO4)2	7758-87-4	Not Listed	Not Listed
Magnesium sulphate anhydrous; MgSO4	7487-88-9	Not Listed	Not Listed
Calcium Carbonate; CaCO3	471-34-1	Not Listed	Not Listed
Magnesium oxide; MgO	1309-48-4	10 mg/m ³ TWA	15 mg/m³ TWA
Iron EDTA; Fe-EDTA	15708-41-5	Not Listed	Not Listed
Potassium chloride; KCI	7447-40-7	Not Listed	Not Listed
Iron sulphate; FeSO4+7H2O	7782-63-0	Not Listed	Not Listed
Manganese sulphate; MnSO4+1H2O	7785-87-7	Not Listed	Not Listed
Boric Acid; H3BO3	10043-35-3	2 mg/m³ TWA	Not Listed
Sodium molybdate; Na2MoO4+2H2O	7631-95-0	Not Listed	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	Not Listed	Not Listed
Copper sulphate anh; CuSO4	7758-98-7	Not Listed	Not Listed
Zinc oxide; ZnO	1314-13-2	2 mg/m³ TWA	5 mg/m³ TWA 15 mg/m³ TWA

Engineering Controls

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

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Personal protective equipment

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

occur

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

umes

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid Color: Tan

Bulk density:65-70 lbs/cu.ft.Flash Point:not applicableAppearance:granulateOdor:Fertilizer

10. STABILITY AND REACTIVITY

Chemically Stable: yes.

Conditions to Avoid Damp or wet conditions. Take precautionary measures against static discharges. 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.

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.

Target Organ Effects: irritation.

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.

Water contaminating.

May be beneficial to plant life.

Additional ecological information: Do not apply directly to lakes, streams, or ponds. Contains Molybdenum (Mo). The application of

materials containing Molybdenum (Mo) may result in forage crops containing levels of Molybdenum

(Mo) which are toxic to ruminant animals.

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.

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

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Ingredients	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Ammonium Nitrate; NH4NO3	6484-52-2	Not listed	Not Listed
ron sulphate; FeSO4+7H2O	7782-63-0	1000 lb final RQ Ferrous sulfate 454 kg final RQ Ferrous sulfate	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	1000 lb final RQ 454 kg final RQ	Not Listed
Copper sulphate anh; CuSO4	7758-98-7	10 lb final RQ 4.54 kg final RQ	Not Listed

General information

Contact local authorities for disposal of large quantities of product.

16. OTHER INFORMATION

NFPA: Health: 2 Flammability: 1 Reactivity: 0

HMIS: Health: 2 Flammability: 0 Reactivity: 1

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.

Additional information: 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.

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