

# MATERIAL SAFETY DATA SHEET

Date stamp:16-Jan-2013MSDS Ref. No.: E903206Revision Number: 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Osmocote® Plus 15-9-12, 3-4 Months **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

Formula No.: S12716

Product Number(s): E903206

#### 2. HAZARDS IDENTIFICATION

Labelling

Signal word: CAUTION

<u>Precautionary Statements</u>
Do not ingest. Wash with soap and water after handling. Keep out of reach of children.

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, Eyes, Inhalation

Target organ effects: Irritation.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %
Ammonium Nitrate, NH4NO3	6484-52-2	7-13
Potassium chloride, KCI	7447-40-7	7-13
Ammonium phosphate	7722-76-1	5-10
Calciumphosphate, Ca3(PO4)2	7758-87-4	5-10
Potassium Nitrate, KNO3	7757-79-1	5-10
Ammonium sulphate, (NH4)2SO4	7783-20-2	1-5
Potassium sulphate, K2SO4	7778-80-5	1-5
Calcium Carbonate, CaCO3	471-34-1	1-10
Magnesium oxide, MgO	1309-48-4	0.1-1
Magnesium sulphate anhydrous, MgSO4	7487-88-9	0.1-1.5
Iron sulphate, FeSO4+7H2O	7782-63-0	0.1-1
Manganese sulphate, MnSO4	7785-87-7	<0.1
Zinc Sulfate Anhydrous	7733-02-0	<0.01
Iron EDTA, Fe-EDTA	15708-41-5	<0.1
Boric Acid, H3BO3	10043-35-3	<0.1
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	<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

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

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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

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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. **Explosive properties:**No information available.

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:**Use good housekeeping practices. Clean up promptly by sweeping or vacuum. **Methods for cleaning up:**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 dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	ACGIH:	OSHA:
Calciumphosphate, Ca3(PO4)2	Not Listed	Not Listed
Potassium sulphate, K2SO4	Not Listed	Not Listed
Potassium Nitrate, KNO3	10 mg/m³ (8-hr TWA) 3 mg/m³ (8-hr TWA)	15 mg/m³ (8-hr TWA) 5 mg/m³ (8-hr TWA)
Potassium chloride, KCI	Not Listed	Not Listed
Calcium Carbonate, CaCO3	Not Listed	15 mg/m³ TWA total 5 mg/m³ TWA
Iron sulphate, FeSO4+7H2O	1 mg/m³ TWA	Not Listed
Iron EDTA, Fe-EDTA	1 mg/m³ TWA	Not Listed
Manganese sulphate, MnSO4	0.2 mg/m³ TWA	Not Listed
Zinc Sulfate Anhydrous	Not Listed	Not Listed
Boric Acid, H3BO3	2 mg/m³ TWA	Not Listed
Sodium molybdate, Na2MoO4+2H2O	0.5 mg/m <sup>3</sup> TWA	5 mg/m³ TWA
Ammonium Nitrate, NH4NO3	N.A.	N.A.
Magnesium sulphate anhydrous, MgSO4	Not Listed	Not Listed
Ammonium sulphate, (NH4)2SO4	Not Listed	Not Listed
Ammonium phosphate	Not Listed	Not Listed
Magnesium oxide, MgO	10 mg/m³ TWA	15 mg/m <sup>3</sup> TWA total

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

occur.

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

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fumes

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:SolidColor:Tan, BrownBulk density:50-70 lbs/cu.ft.Flash point:Not applicableAppearance:GranularOdor:Fertilizer

### 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:
Calciumphosphate, Ca3(PO4)2	Not listed	Not listed	Not listed
Potassium sulphate, K2SO4	Not listed	Not listed	Not listed
Potassium Nitrate, KNO3	Not listed	Not listed	Not listed
Potassium chloride, KCI	Not listed	Not listed	Not listed
Calcium Carbonate, CaCO3	Not listed	Not listed	Not listed
Iron sulphate, FeSO4+7H2O	Not listed	Not listed	Not listed
Iron EDTA, Fe-EDTA	Not listed	Not listed	Not listed
Manganese sulphate, MnSO4	Not listed	Not listed	Not listed
Zinc Sulfate Anhydrous	Not listed	Not listed	Not listed
Boric Acid, H3BO3	Not listed	Not listed	Not listed
Sodium molybdate, Na2MoO4+2H2O	Not listed	Not listed	Not listed
Ammonium Nitrate, NH4NO3	Not listed	Not listed	Not listed
Magnesium sulphate anhydrous, MgSO4	Not listed	Not listed	Not listed
Ammonium sulphate, (NH4)2SO4	Not listed	Not listed	Not listed
Ammonium phosphate	Not listed	Not listed	Not listed
Magnesium oxide, MgO	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 useInhalation: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:

Does not bioaccumulate.

Water contaminating.

**Aquatic toxicity:** May be beneficial to plant life.

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

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### 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

#### 15. REGULATORY INFORMATION

Ingredients	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Calciumphosphate, Ca3(PO4)2	7758-87-4	Not Listed	Not Listed
Potassium sulphate, K2SO4	7778-80-5	Not Listed	Not Listed
Potassium Nitrate, KNO3	7757-79-1	Not Listed	Not Listed
Potassium chloride, KCl	7447-40-7	Not Listed	Not Listed
Calcium Carbonate, CaCO3	471-34-1	Not Listed	Not Listed
Iron sulphate, FeSO4+7H2O	7782-63-0	1000 lb final RQ	Not Listed
		454 kg final RQ	
Iron EDTA, Fe-EDTA	15708-41-5	Not Listed	Not Listed
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	
Boric Acid, H3BO3	10043-35-3	Not Listed	Not Listed
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	Not Listed	Not Listed
Ammonium Nitrate, NH4NO3	6484-52-2	Not listed	Not Listed
Magnesium sulphate anhydrous, MgSO4	7487-88-9	Not Listed	Not Listed
Ammonium sulphate, (NH4)2SO4	7783-20-2	Not Listed	Not Listed
Ammonium phosphate	7722-76-1	Not Listed	Not Listed
Magnesium oxide, MgO	1309-48-4	Not Listed	Not Listed

**General Information** 

Contact local authorities for disposal of large quantities of product

#### 16. OTHER INFORMATION

NFPA:Health: 1Flammability: 0Reactivity: 1HMIS:Health: 1Flammability: 0Reactivity: 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.

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