

MATERIAL SAFETY DATA SHEET

Date stamp: 23-Feb-2012 MSDS Ref. No.: E90100 Revision Number: NOT AUTHORIZED

PRODUCT AND COMPANY IDENTIFICATION

Product name: Osmocote Bloom 12-7-18 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.: S15315 Product Number(s): E90100

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

Labelling

Signal word: CAUTION

Precautionary Statements

Potential health effects

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

Eye contact:

Contact with eyes may cause irritation.

Skin contact: Irritation not expected.

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

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 %
Potassium sulphate, K2SO4	7778-80-5	25 - 40
Ammonium nitrate, NH4NO3	6484-52-2	25 - 40
mono ammonium phosphate, M.A.P.	7722-76-1	5 - 15
Coating	PROPRIETARY	5 - 15
Inert Ingredients	PROPRIETARY	1 - 10
Magnesium sulphate monohydrate (MgSO4 x 1H2O)	14567-64-7	5 - 15
Iron EDTA	15708-41-5	< 1
Iron Oxide	1309-37-1	< 1
Copper sulphate, CuSO4	7758-98-7	< 1
Manganese sulphate, MnSO4	7785-87-7	< 1
Sodium borate, Na2B4O7·10H2O	1330-43-4	< 1
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	< 1
Zinc Sulfate Anhydrous	7733-02-0	<1
Magnesium oxide, MgO	1309-48-4	< 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

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Skin contact:

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

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: Non-flammable.

Suitable extinguishing media: Water.

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:

We 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 dust formation.

Storage: Store in a cool, dry area away from incompatible materials and heat sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	ACGIH:	OSHA:
Potassium sulphate, K2SO4	Not Listed	Not Listed
Ammonium nitrate, NH4NO3	Not Listed	Not Listed
mono ammonium phosphate, M.A.P.	Not Listed	Not Listed
Magnesium sulphate monohydrate (MgSO4 x 1H2O)	Not Listed	Not Listed
Coating	Not Listed	Not Listed
Inert Ingredients	Not Listed	Not Listed
Iron Oxide	5 mg/m³ TWA	10 mg/m³ TWA
Magnesium oxide, MgO	10 mg/m³ TWA	15 mg/m ³ TWA total
Sodium borate, Na2B4O7·10H2O	2 mg/m³ TWA	Not Listed
Iron EDTA	1 mg/m³ TWA	Not Listed
Sodium molybdate, Na2MoO4+2H2O	0.5 mg/m³ TWA	5 mg/m ³ TWA
Zinc Sulfate Anhydrous	Not Listed	Not Listed
Manganese sulphate, MnSO4	0.2 mg/m ³ TWA	Not Listed
Copper sulphate, CuSO4	Not Listed	Not Listed

Engineering controls

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

exposure standard.

Personal Protective Equipment

Eye/face protection
Skin and body protection:
Respiratory protection:

Safety glasses.
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

fumes

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

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:SolidColor:Brown, GreenishFlash point:Not applicableAppearance:Resin Coated GranulesDensity:1.67Odor:No information available

Solubility: Coating not soluble, release nutrients through

coating

10. STABILITY AND REACTIVITY

Chemically Stable: Stable under recommended storage conditions.

Conditions to avoid Keep away from heat and ignition sources. Damp or wet conditions.

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 indgredient as a carcinogen.

Ingredients	NTP:	IARC:	OSHA:
Potassium sulphate, K2SO4	Not listed	Not listed	Not listed
Ammonium nitrate, NH4NO3	Not listed	Not listed	Not listed
mono ammonium phosphate, M.A.P.	Not listed	Not listed	Not listed
Magnesium sulphate monohydrate (MgSO4 x 1H2O)	Not listed	Not listed	Not listed
Coating	Not listed	Not listed	Not listed
Inert Ingredients	Not listed	Not listed	Not listed
Iron Oxide	Not listed	3	Not listed
Magnesium oxide, MgO	Not listed	Not listed	Not listed
Sodium borate, Na2B4O7·10H2O	Not listed	Not listed	Not listed
Iron EDTA	Not listed	Not listed	Not listed
Sodium molybdate, Na2MoO4+2H2O	Not listed	Not listed	Not listed
Zinc Sulfate Anhydrous	Not listed	Not listed	Not listed
Manganese sulphate, MnSO4	Not listed	Not listed	Not listed
Copper sulphate, CuSO4	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

Target organ effects: Irritation.

12. ECOLOGICAL INFORMATION

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

Persistence and degradability:

Bioaccumulative potential:

Mobility:

Aquatic toxicity:

No information available.

No information available.

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.

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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
Potassium sulphate, K2SO4	7778-80-5	Not Listed	Not Listed
Ammonium nitrate, NH4NO3	6484-52-2	Not listed	Not Listed
mono ammonium phosphate, M.A.P.	7722-76-1	Not Listed	Not Listed
Magnesium sulphate monohydrate (MgSO4 x 1H2O)	14567-64-7	Not Listed	Not Listed
Coating	PROPRIETARY	Not Listed	Not Listed
Inert Ingredients	PROPRIETARY	Not Listed	Not Listed
Iron Oxide	1309-37-1	Not Listed	Not Listed
Magnesium oxide, MgO	1309-48-4	Not Listed	Not Listed
Sodium borate, Na2B4O7·10H2O	1330-43-4	Not Listed	Not Listed
Iron EDTA	15708-41-5	Not Listed	Not Listed
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	Not Listed	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	1000 lb final RQ	Not Listed
		454 kg final RQ	
Manganese sulphate, MnSO4	7785-87-7	Not Listed	Not Listed
Copper sulphate, CuSO4	7758-98-7	10 lb final RQ	Not Listed
		4.54 kg final RQ	

General Information

Contact local authorities for disposal of large quantities of product

16. OTHER INFORMATION

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

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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