# MATERIAL SAFETY DATA SHEET



# Osmocoteò Plus **Controlled Release Fertilizer**

90320

**15-9-12** 

Scotts-Sierra Horticultural Products Co. The Scotts Company

14111 Scottslawn Road Marysville, Ohio 43041 In Case of Emergency call: 1-937-644-0011 (USA) For non-Emergency calls: 1-937-644-0011 (USA)

# I. MATERIAL IDENTIFICATION

Product Name: Osmocote® Plus Controlled Release Fertilizer

Analysis: 15-9-12 Stock Number: 90320

**NFPA Hazard Ratings** 0 Least Health 1 Slight 2 Moderate Flammability 3 High Reactivity

4 Severe

# II. HAZARDOUS INGREDIENTS

|                     |                             | OSHA         | ACGIH        |
|---------------------|-----------------------------|--------------|--------------|
| <u>MATERIAL</u>     | <u>CAS #</u>                | PEL          | TLV          |
| Ammonium Nitrate    | 6484-52-2                   | None         | None         |
| Ammonium Phosphates | 7783-28-0/7722-76-1         | None         | None         |
| Calcium Phosphates  | 7758-23-8/7757-93-9/7758-87 | -4 None      | None         |
| Calcium Fluoride    | 7789-75-5                   | 2.5 mg(F)/m3 | 2.5 mg(F)/m3 |
| Potassium Nitrate   | 7757-79-1                   | None         | None         |
| Magnesium Sulfate   | 10034-99-8/7487-88-9        | None         | None         |
| Boric Acid          | 10043-35-3                  | None         | None         |
| Copper Sulfate      | 7758-98-7                   | None         | 1.0mg(Cu)/m3 |
| Iron Sulfate        | 7782-63-0                   | 1mg(Fe)/m3   | 1mg(Fe)/m3   |
| Iron EDTA           | 15708-41-5                  | None         | None         |
| Manganese Sulfate   | 7785-87-7                   | 5mg(Mn)/m3   | 5mg(Mn)/m3   |
| Sodium Molybdate    | 7631-95-0                   | 5mg(Mo)/m3   | 5mg(Mo)/m3   |
| Zinc Sulfate        | 7733-02-0                   | None         | None         |
| Zinc Oxide          | 1314-13-2                   | 5mg/m3       | 10mg/m3      |

This product consists of prills coated with a resin made from a vegetable oil (linseed oil or soybean oil) reacted with a cyclic diene.

All exposure limits are for airborne 8-hour time-weighted averages and apply only to occupational exposures. Product coating is expected to minimize airborne exposures.

The ACGIH Threshold Limit Values for nuisance (inert) dusts containing <1% crystalline silica and no asbestos are: 10 mg/m3 total, 5 mg/m3 respirable.

## III. FIRST AID PROCEDURES

If in eyes, flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists. Eyes: Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink Ingestion:

1 to 2 glasses of water, then induce repeated vomiting until vomit is clear. Call physician.

Wash with plenty of soap and water. Skin:

Remove to fresh air. Treat symptomatically. Inhalation:

# IV. HEALTH HAZARD INFORMATION

#### Summary of Risks

Ammonium nitrate is an allergen. Prolonged or repeated direct contact with fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat, and lungs. Prolonged exposure may cause weakness, depression, headache, mental impairment, anemia, methemoglobinemia, and kidney injury. Ingestion of product can cause severe gastrointestinal irritation, muscular weakness, and blue-tinged skin (cyanosis). Infants and children are especially at risk for cyanosis. Ingestion of large amounts may result in death.

Inhalation of heavy concentrations of manganese-containing dusts over very prolonged periods of exposure (usually one to three years) has been reported to cause damage to the central nervous system.

Medical conditions which may

<u>be aggravated by contact:</u> Skin abrasions and sores. Inhalation of dust may aggravate asthma.

<u>Target Organs:</u> Skin, eyes, respiratory tract, gastrointestinal tract, and central nervous system.

<u>Primary Entry Route(s):</u> Ingestion, inhalation.

<u>Chronic Effect(s):</u> See Summary:

Ingredients Listed as a Carcinogen

IARC Monographs: No NTP: No OSHA: No

# V. PERSONAL PROTECTION AND PRECAUTIONS

Warning Properties of Uncoated Fertilizer: Irritation of eyes, nose, or mouth.

Goggles: None required for routine use as fertilizer. High airborne dust levels or mists of product dissolved

in liquid may be irritating; use chemical goggles.

Gloves: None required for normal use. If prolonged or repeated use irritates skin, use neoprene or

PVC gloves.

Respirator: If airborne dust 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) to reduce exposures to acceptable levels.

Ventilation: Ventilation and personal protection are recommended whenever dust levels are high or

product does not remain intact.

**Workplace Considerations** 

Ventilation: Ventilation and personal protection are recommended whenever dust levels are high or

product does not remain intact.

Safety Stations: Running water should be available in case material gets in eyes.

Other: Ingredients with occupational exposure limits comprise a small percentage of the total

product. For this reason, it is not expected that these limits will be exceeded unless the

nuisance dust standards are exceeded.

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VI. PHYSICAL HAZARD INFORMATION

Flammable Limits (% in Air): Color: Mixed light/dark tan Not Applicable

Odor: Extinguishing Media: Water None

Auto Ignition Temperature: Not Applicable Melting Point: Decomposes on heating

Flash Point (method): **Boiling Point:** Decomposes on heating Decomposes on heating

> Solubility in H<sub>2</sub>0 80-85%

Specific Gravity:  $(H_20 = 1) 1.1$ Vapor Pressure: Not Known Reactivity

Stability: Stable Evaporation Rate: Not Applicable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Extreme heat. Contact with strong alkalies, oxidizers, and reducing agents. Contact

with fuels and other organic or combustible materials. Active metals such as

aluminum and magnesium.

In a fire, may produce oxides of nitrogen, phosphorus, potassium, and sulfur, as well **Hazardous Decomposition** 

as ammonia. Products:

Strong oxidizing (permanganate, dichromate, nitrate, chlorine) and reducing agents, Chemical Incompatibilities:

sodium nitrite and many chlorine compounds (including household bleach and other

cleaning products). Active metals such as aluminum and magnesium.

Unusual Fire, Explosion

Decomposes on heating to emit toxic oxides of nitrogen, phosphorus, potassium, and sulfur, as well as ammonia. High airborne dust concentrations have the potential for and Reactivity Hazards:

explosion.

Evacuate area. Flood with water to cool containers. Wear self-contained breathing In Case of Fire:

apparatus to fight large fires.

# VII. REGULATORY INFORMATION

**DOT Classification:** Not DOT regulated.

## VIII. STORAGE AND SPECIAL PRECAUTIONS

# Precautions to be taken in handling and storage

Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs, as well as household cleaning products. Wash hands with soap and water after handling product. Keep out of reach of children.

#### In case of spills

Avoid dusting or misting conditions during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose. Keep spills away from drinking water supplies. After cleaning up spill, flush area with water.

#### Waste Management/Disposal

Apply as fertilizer to field. If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state, and local regulations.

Date revised:

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