MATERIAL SAFETY DATA SHEET



Osmocote ® Controlled Release Micro-Fertilizer

90096

20-6-10

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® Controlled Release Micro-Fertilize	NFPA Hazard I	Ratings	0 Least	
Analysis:	20-6-10	Health	2	1 Slight	
2	_, , , ,	Flammability	0	∠ Moderate	
Stock Number:	90096	Reactivity	1	0 11:	

II. HAZARDOUS INGREDIENTS

		OSHA	ACGIH
MATERIAL	<u>CAS #</u>	PEL	_TLV_
Ammonium Nitrate	6484-52-2	None	None
Potassium Sulfate	7778-80-5	None	None
Ammonium Phosphates	7722-76-1/7783-28-0	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

- * Each prill consists of the ingredients listed above coated with a resin made from a modified vegetable oil (linseed oil or soybean oil).
- * 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

Eyes: If in eyes, flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists.

Ingestion: Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink

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

Skin: Wash with plenty of soap and water.

Inhalation: Remove to fresh air. Treat symptomatically.

IV. HEALTH HAZARD INFORMATION

<u>Summary of Risks:</u> 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.

Medical conditions which may

<u>be aggravated by contact:</u> Ammonium nitrate allergies. Skin abrasions and sores. <u>Target Organs:</u> Skin, eyes, respiratory tract, and gastrointestinal tract.

Primary Entry Route(s): Ingestion, inhalation.

<u>Chronic Effect(s):</u> Not known.

Ingredients Listed as a Carcinogen

IARC Monographs: No NTP: No OSHA: No

Product Name: OSMOCOTE® CONTROLLED RELEASE MICRO-FERTILIZER (St. # 90096)

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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.

Respirato 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.

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.

VI. PHYSICAL HAZARD INFORMATION

Flammable Limits (% in Air): N/A Color: Mixed light/dark tan

Extinguishing Media: Water Odor: None

Auto Ignition Temperature: N/A Melting Point: Decomposes on heating

Flash Point (method): Decomposes on heating Boiling Point: Decomposes on heating Solubility in H₂0 B0-85%

Specific Gravity: $(H_20 = 1) 1.2$ Reactivity Vapor Pressure: Not Known

Stability: Stable Evaporation Rate: N/A

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Extreme heat. Contact with fuels and other organic or combustible materials.

Active metals such as aluminum and magnesium. Strong reducing agents.

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

Products: ammoni

Chemical Incompatibilities: Strong reducing agents. Active metals such as aluminum and magnesium.

Unusual Fire, Explosion Decomposes on heating to emit toxic ammonia and oxides of nitrogen, potassium,

and Reactivity Hazards: phosphorus, and sulfur. High airborne dust concentrations have the potential for explosion.

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

breathing apparatus to fight large fires.

VII. REGULATORY INFORMATION

DOT Classification: Not DOT regulated.

VIII. STORAGE AND SPECIAL PRECAUTIONS

<u>Precautions to be taken in handling and storage:</u> 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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