

Material Safety Data Sheet



Osmocote® Controlled Release Fertilizer 14-14-14

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
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Section 1 - Product Description

Product Name: Osmocote(R) Controlled Release Fertilizer 14-14-14
Product Code(s): 97-1929, C10957, 15-8702, 15-8730, 15-8970, 15-9765
Size: Various
Chemical Name: N/A
CAS Number: N/A
Formula: See Section 3
Synonyms: None
Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: Irritating to eyes, respiratory system and skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Caution; ingestion may lead to cyanosis. Infants and Children at higher risk of developing cyanosis.

Potential Health Effects:

Eyes: May cause irritation.

Skin: Irritating to skin.

Ingestion: Harmful if swallowed.

Inhalation: Irritating to respiratory system.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Ammonium Nitrate(CAS# 6484-52-2); Ammonium Phosphate(CAS# 7722-76-1); Calcium Phosphate (CAS# 1306-06-5); Potassium Sulfate(CAS# 7778-80-5)
TLV units: ACGIH-TLV 3 mg(F)/m3 Dust
PEL units: OSHA-PEL 15 mg(F)/m3 Dust

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

Ingestion - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating:

Health: 2

Fire: 0

Reactivity: 1

Extinguisher Media: Water spray.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products. Avoid Dusting. May become explosive when dispersed in air.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep locked up and out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Preferred

Mechanical(General): Accepted

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: N/A

Boiling Point: N/A

Vapor Density(Air=1): N/A

Percent Volatile by Volume: N/A

Solubility in Water: Soluble

Melting Point: N/A

Vapor Pressure: N/A

Specific Gravity (H₂O=1): 1.2

Evaporation Rate (BuAc=1): N/A

Appearance and Odor: Odorless light to dark tan solid.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Reducing agents, Metals,

Hazardous Decomposition Products: NO_x, NH₃, SO_x, PO_x, K₂O - Potassium Oxide,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: (Ammonium Nitrate) orl-rat LD50 2217 mg/kg

(Calcium Phosphate Monobasic) orl-rat LD50 17500 m
(Potassium Sulfate) orl-rat LD50 6600 mg/kg

Effects of Overexposure:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: Allergies, Skin disorders,

Target Organs: Respiratory system, Skin, Eyes, Gastrointestinal tract,

Primary Route(s) of Entry: Inhalation and ingestion.

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: N/A

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:

(Ammonium Nitrate) No
(Calcium Phosphate) No
(Ammonium Phosphate) No
(Potassium Sulfate) No

Chemical Category:

(Ammonium Nitrate) No
(Calcium Phosphate) No
(Ammonium Phosphate) No
(Potassium Sulfate) No

CERCLA Section 103 RQ(lb.): (Ammonium Nitrate) No

(Calcium Phosphate) No
(Ammonium Phosphate) No
(Potassium Sulfate) No

RCRA Section 261.33: (Ammonium Nitrate) No

(Calcium Phosphate) No
(Ammonium Phosphate) No
(Potassium Sulfate) No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act