

Safety Data Sheet

Osmocote® Controlled Release Fertilizer 14-14-14

CAROLINA®
www.carolina.com

Section 1 Product Description

Product Name: Osmocote® Controlled Release Fertilizer 14-14-14
Recommended Use: Science education applications
Synonyms: None
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Other Safety Precautions: May cause eye irritation.
May cause gastrointestinal discomfort.
May cause irritation to respiratory tract.
May cause irritation to skin.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Ammonium Nitrate; 15-30%	6484-52-2	100
Ammonium Phosphate; 15-30%	7722-76-1	
Calcium Phosphate; 10-30%	1306-06-5	
Potassium Sulfate; 5-10%	7778-80-5	

Each prill consists of the ingredients listed above coated with a resin made from a vegetable oil (linseed oil or soybean oil) reacted with a cyclic diene.

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Water spray.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products. Avoid Dusting. May become explosive when dispersed in air.
Hazardous Combustion Products: During a fire irritating or toxic gases may be generated by thermal decomposition or combustion., Potassium Oxide, Silicon dioxide, Nitrogen oxides, Metal Oxides,

Section 6 Spill or Leak Procedures

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Steps to Take in Case Material Is Released or Spilled:

No adverse health affects expected from the clean-up of spilled material. Remove soiled clothing and launder before reuse.
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Contain the discharged material.

Section 7 Handling and Storage

Handling: Keep locked up and out of the reach of children. Keep away from food, drink and animal feeding stuffs.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>	<u>OSHA PEL</u>		
	(TWA)	(STEL)	(TWA)	(STEL)
No data available	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Natural latex,, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: N/A
Molecular Weight: N/A	Evaporation Rate (BuAc=1): N/A
Appearance: Odorless light to dark tan solid. Solid	Vapor Density (Air=1): N/A
Odor: No data.	Specific Gravity: 1.2
Odor Threshold: No data available	Solubility in Water: Soluble
pH: No data available	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: N/A	Percent Volatile by Volume: N/A

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known. Moisture (will lead to product performance degradation) High temperatures

Incompatible Materials: Strong oxidizing agents, Metals, Strong reducing agents

Hazardous Decomposition Products: Metal Oxides, , Nitrogen oxides, Silicon dioxide, Potassium Oxide, During a fire irritating or toxic gases may be generated by thermal decomposition or combustion.

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Allergies,

Delayed Effects: No data available

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Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Nitrate	6484-52-2	Not determined	Not determined	Not determined
Ammonium Phosphate	7722-76-1			
Calcium Phosphate	1306-06-5			
Potassium Sulfate	7778-80-5			

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ammonium Nitrate	6484-52-2	Not listed	Not listed	Not listed
Ammonium Phosphate	7722-76-1			
Calcium Phosphate	1306-06-5			
Potassium Sulfate	7778-80-5			

Chronic Effects:

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	See Section 2
Chronic:	Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12

Ecological Data

Overview:	This material is not expected to be harmful to the ecology. This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	Bioconcentration is not expected to occur.
Degradability:	Biodegrades very quickly.
Other Adverse Effects:	No data

Chemical Name	CAS Number	Eco Toxicity
Ammonium Nitrate	6484-52-2	
Ammonium Phosphate	7722-76-1	
Calcium Phosphate	1306-06-5	
Potassium Sulfate	7778-80-5	

Section 13

Disposal Information

Disposal Methods:	Re-use Follow federal, state and local regulations. This material is not a RCRA hazardous waste, if not contaminated. Do not flush material to drain or storm sewer. Contract to authorized disposal service. This material is not considered to be a RCRA hazardous waste.
Waste Disposal Code(s):	Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: N/A	Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.
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Section 15

Regulatory Information

TSCA Status:	A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ

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Ammonium Nitrate	6484-52-2	No	No	No	No	No
Ammonium Phosphate	7722-76-1					
Calcium Phosphate	1306-06-5					
Potassium Sulfate	7778-80-5					

California Prop 65:

No California Proposition 65 ingredients

Section 16	Additional Information
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Revised: 08/21/2018

Replaces: 06/15/2018

Printed: 08-25-2018

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.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health