

Safety Data Sheet

Osmocote® Slow Release Fertilizer



Section 1 Product Description

Product Name: Osmocote® Slow Release Fertilizer
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 irritation.
May cause gastrointestinal discomfort.
May cause irritation to respiratory tract.
May cause irritation to skin.

Acute Toxicity Oral Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Dermal Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Gas Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity

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	

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.

Safety Data Sheet

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

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 laundry 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

Chemical Name	ACGIH		OSHA PEL	
	(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

Molecular Weight: N/A

Appearance: Odorless light to dark tan solid. Solid

Odor: No data.

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: No data available

Flash Point: No data available

Flammable Limits in Air: N/A

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A

Vapor Density (Air=1): N/A

Specific Gravity: 1.2

Solubility in Water: Soluble

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

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

Safety Data Sheet

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): Allergies,
Delayed Effects: No data available

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.

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
---------------	------------	------------	----------	-----------	-----------	---------------

Safety Data Sheet

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					

Section 16

Additional Information

Revised: 09/03/2014

Replaces: 09/03/2014

Printed: 09-11-2014

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