Orchid Food

CAROLINA® www.carolina.com

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Orchid Food Science education applications Fertilizer Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

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

GHS Classification:

Section 2

Other Safety Precautions:	May cause eye irritation. May cause gastrointestinal discomfort. May cause irritation to respiratory tract. Non-Hazardous under normal use.
Acute Toxicity Oral Contains Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity 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

CAS #

See Section 3

%

100

Chemical Name

Urea (CAS # 57-13-6) 40 - 70%Ammonium Phosphate (CAS # 7722-76-1) 10 - 30%Potassium Chloride (CAS # 7447-40-7) 10 - 30%Iron EDTA (CAS # 15708-41-5) 1 - 5%Sodium Sulfate (CAS # 7757-82-6) 0.5 - 1%Copper EDTA (CAS # 14025-15-1) 0.1 - 1%Zinc EDTA (14025-21-9) 0.1 - 1%Manganese EDTA (CAS # 15375-84-5) 0.1 - 1%Boric Acid (CAS # 10043-35-3) 0.1 - 1%Sodium Molybdate Dihydrate (CAS # 7631-95-0) <0.1%</td>

Section 4

Section 5

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, wash immediately with plenty of water.Ingestion:If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Firefighting Procedures

Extinguishing Media:

Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection		ull protective equipr	nent and NIOSH appro	ved self-contained	
Fire and/or Explosion Hazards: Hazardous Combustion Products:	breathing apparatus. Avoid Dusting. May become explosive when dispersed in air. Toxic vapors, mists, or dusts may be released upon thermal processing or during combustion.				
Section 6	Spill or Leak P	rocedures			
Released or Spilled:	No health affects expected from Follow personal protective equiver Ventilate the contaminated are creating and inhaling dust. Ave material Reduce airborne dust and prevent material and place in a disposa- liquid with additional absorber product to enter public drainag	ipment recommend a. Isolate area. Kee bid contact with eye vent scattering by n al container Wash a t and place in a dis	dations found in Section ep unnecessary person s. Avoid breathing vap noistening with water V area with soap and wate posable container. Do i	n 8 of this (M)SDS anel away. Avoid ors from heated acuum or sweep up er Pick up wash	
Section 7	Handling and	Storage			
Handling:Do not ingest or talStorage:Suitable for any geStorage Code:Green - general che	neral chemical storage.				
Section 8	Protection Inf	ormation			
	ACGIH		<u>OSH</u>	A PEL	
<u>Chemical Name</u> Urea (CAS # 57-13-6) 40 - 70%	(TWA) 2 mg/m3 TWA Boric Acid	<u>(STEL)</u> N/A	(TWA) N/A	(STEL) N/A	
Control Parameters Engineering Measures:	Local exhaust ventilation of handling or using this proof should be sufficient to con	duct to avoid overe	posure. Good genera		
Personal Protective Equipment (PPE) Respiratory Protection: Eye Protection:		equired under norn	nal conditions of use.	eye wash station	
Skin Protection:	Avoid skin contact by wea equipment depending upo and replace at regular inte other exposed areas with work.	on conditions of use ervals. Clean protect	. Inspect gloves for che tive equipment regular	emical break-through ly. Wash hands and	
Gloves:	Nitrile				
Section 0	Physical				

Section 9

Formula: See Section 3 Molecular Weight: See Section 3 Appearance: Powder Odor: Mild Characteristic 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

Physical Data

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: Bulk Density: 45-60 lbs/ft3 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: Chemical Stability: Conditions to Avoid:

Reactivity Data

No data available Stable under normal conditions. Exposure to moisture Elevated temperatures

Incompatible Materials: Hazardous Decomposition Products:

Strong oxidizing agents Toxic vapors, mists, or dusts may be released upon thermal processing or during combustion. Will not occur

Hazardous Polymerization:

Section 11

Toxicity Data

Routes of Entry	Inhalation and ingestion.
Symptoms (Acute):	None Known, Dermititis, Eye Irritation
Delayed Effects:	No data available

Acute Toxicity: Chemical Name No data available	CAS Number See Section 3	Oral LD50 Not determined	Dermal LD50 Not determined	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name No data available	CAS Number See Section 3	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth	n defect).		

CITY. Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:

No evidence of negative reproductive effects. See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA.

Not Determined

No evidence of a sensitization effect.

Section 12

Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. Keep out of waterways. No data No data No data No data No data No data
Chemical Name N/A	CAS Number Eco Toxicity See Section 3
Section 13	Disposal Information
Disposal Methods:	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s):

Transport Information

Ecological Data

Ground - DOT Proper Shipping Name: Not Regulated

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

Section 14

Regulatory Information

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

No data available	See Section 3	No	No	No	No	No

Section 16

Additional Information

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