## **SAFETY DATA SHEET**

Ceia PTO Date Prepared: 5/27/2024 Replaces: All Previous

## **SECTION 1. IDENTIFICATION**

Product Name: Ceia PTO Synonyms: ZON1477

Use: Agricultural, Liquid Micronutrient Fertilizer

Manufacturer: Chemical Dynamics, Inc.

4206 Business Lane Plant City FL 33566

Phone: 813-752-4950 Chemtrec (Emergency) Phone: 800-424-9300

## **SECTION 2. HAZARDS IDENTIFICATION**

Product is not classified as hazardous under normal conditions.

	SECTION 3. C	OMPOSITION	
 Material	CAS#	EINECS #	%WT
Monopotassium Phosphate	7778-77-0	231-913-4	Proprietary Blend of
Dipotassium Phosphate	7758-11-4	231-834-5	Materials not Classified
Urea	57-13-6	200-315-5	as Hazardous or are
Triazone	7098-14-8	230-406-5	below de minimus
Water	7732-18-5	231-791-2	classification limits

See product label for guaranteed analysis.

SECTION 4. FIRST AID MEASURES			
<b>General:</b> No specific acute or chromic health effects known. In case of persisting advergered effects consult a physician. Treat symptomatically.			
Ingestion:	Drink large amounts of water. Do not induce vomiting. Call doctor or poison control center.		
Skin Contact:	If on skin (or hair): Take off all contaminated clothing and wash exposed skin with soap and water. If irritation persists, seek medical attention.		
Inhalation:	If inhaled: Remove person to fresh air and keep comfortable for breathing.  Provide artificial respiration if necessary. Seek medical attention if necessary.		
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.		
Acute Exposure Symptoms:	May cause slight, transient irritation of eyes and skin. Ingestion may irritate gastrointestinal tract.		
Chronic Exposure Symptoms:	No specific chromic health effects known.		

SECTION 5. FIRE FIGHTING MEASURES				
Extinguishing	Not Flammable. Use extinguishing media appropriate to surrounding fire. Cool			
Media:	containers with water spray from a distance to avoid rupture from thermal			
	expansion.			
Specific Hazards: This product is an aqueous mixture which will not burn. Thermal decon				
	can produce ammonia and oxides of nitrogen and carbon.			
<b>Protective</b> Wear self-contained breathing apparatus (SCBA) and full protective gear. A				
Equipment and	inhaling combustion products.			
Precautions for	Fire run-off should be contained to prevent possible environmental damage.			
Fire-Fighters:				
NFPA Rating:	Health: 0, Fire: 0, Reactivity: 0			

	SECTION 6. ACCIDENTAL RELEASE MEASURES			
Precautions:	Isolate area. Keep unnecessary personnel away. Avoid splashing or spraying.  Caution should be exercised in the area of spilled material since solution can cause a slippery condition.			
Protective	Impervious gloves (rubber, neoprene or nitrile), Long sleeved clothing, Chemical			
Equipment:	splash-proof goggles. Chemical resistant apron and/or rubber boots may be needed. Clothing and equipment can be washed or laundered for reuse.			
Containment:	Stop flow of material if safe to do so. Dike area with diatomaceous earth or sand and maximize recovery. Avoid infiltration of large quantities into drains, surface water, groundwater and soil. Keep out of "waters of the U.S." because of potential aquatic toxicity.			
Clean Up:	Pump into a suitable tank or absorb with diatomaceous earth or sand. Sweep up and place into suitable containers for agronomical land application at recommended rates or dispose of in accordance with local/regional/national regulations (See Section 13 of SDS).			

SECTION 7. HANDLING AND STORAGE				
Precautions for safe handling:	Material has low toxicity; therefore risk of damage is limited in normal handling. Use only in a well-ventilated area.  Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Do not eat,			
	drink or use tobacco products when handling this material. Apply product in open areas. Keep away from children and pets. Do not contaminate feed, seed or any water sources. Launder work clothes frequently and separate from other laundry.			
Conditions for	Store in a well-ventilated, cool, dry place, away from direct sunlight, sources of			
safe storage: intense heat, or where freezing is possible. Do not allow product to go al				
	105°F. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.			
Incompatibilities:	Avoid using containers, pipes and fittings made of aluminum, copper, zinc or their alloys (i.e. bronze, brass, galvanized metals, etc.). These materials of construction should not be used in piping, handling systems or storage containers for this product.			

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION						
Component	Mono-	- and	Not Establis	shed	PEL, OSHA	
Exposure Limits:	Dipota	ıssium	Not Establis	shed	TWA, ACGIH	
	Phosp		Not Establis	shed	IDLH, NIOSH	
	Triazo	ne	Not Establis	shed	REL, NIOSH	
			Not Establis	shed	STEL, NIOSH	
	Urea		Not Establis	shed	PEL, OSHA	
			10 mg/m <sup>3</sup>		TWA, ACGIH	
			Not Establis	shed	IDLH, NIOSH	
			Not Establis	shed	REL, NIOSH	
			Not Establis	shed	STEL, NIOSH	
Engineering	Unless	heated to evo	lve ammonia	or mis	sted by heat, agitation	on or spraying,
Controls:				quate.	Otherwise, provide l	ocal exhaust
	ventila	ation and wash	facilities.			
Personal	Eyes: Splash-proof chemical goggles					
Protective	Skin: Impervious gloves (rubber, neoprene or nitrile). If skin irritation occurs,					
Equipment:	wear long sleeves. Chemically resistant apron is recommended.					
	Respiratory: None required for ambient air concentrations (i.e. in the open					
	under normal agronomic conditions). Use NIOSH approved mist respirator when					
	dusts, mists, or vapors are present.					
		ash stations and safety shower recommended. There are no known				
	hazards associated with this product when used as recommended, however					
	common good industrial hygiene practices should be followed, such as, washing					
	thoroughly after handling and before eating or drinking.					
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES						
Appearance: Clear, light blue to colorless liquid						
Odor:		No apparent		UEL/		Not Applicable
Odor Threshold:		Not Available	)		Pressure:	Similar to water
pH:		7 to 8		Densi	•	1.19 to 1.21 g/cm <sup>3</sup>
Melting/Freezing Point:		< 0°C (32°F)		Solub	•	Water
Boiling Point:		>100°C (212°	•	Logow		Not Available
Flack Daints		N   - +   A         -	I -	A 4 - 1		Alat Alathurila

Odor:	No apparent odor	UEL / LEL:	Not Applicable	
Odor Threshold:	Not Available	Vapor Pressure:	Similar to water	
pH:	7 to 8	Density:	1.19 to 1.21 g/cm <sup>3</sup>	
Melting/Freezing Point:	< 0°C (32°F)	Solubility:	Water	
<b>Boiling Point:</b>	>100°C (212°F)	Logow:	Not Available	
Flash Point:	Not Applicable	Auto Ignition Temp:	Not Applicable	
<b>Evaporation Rate:</b>	Not Available	Decomposition Temp:	Not Available	
Flammability (Solid/Gas):	Not Applicable	Viscosity	Not Available	
SECTION 10. STABILITY AND REACTIVITY				
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SECTION 10. STABILITY AND REACTIVITY		
Reactivity:	Stable	
Chemical Stability:	This product is stable under normal ambient conditions of temperature and pressure.	
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.	
Conditions to avoid:	Avoid exposure to extreme temperatures, strong oxidizers and acids or acidic materials and contact with incompatible materials. Elevated temperatures may cause containers to rupture. Do not allow product to go above 105°F.	
Incompatible Materials:	Water reactive materials	

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Strong oxidizers such as nitrates, nitrites or chlorates can caus mixtures if heated to dryness. Avoid contact with acids or acid The product DynaZone® is not compatible with copper, zinc or (i.e. bronze, brass, galvanized metals, etc.). These materials of construction should not be used in piping, handling systems or containers for this product.		
Hazardous	Heating this product will evolve ammonia. Thermal decomposition can	
Decomposition	produce ammonia and oxides of nitrogen and carbon.	
Products:		
	SECTION 11. TOXILOGICAL INFORMATION	
Acute Toxicity:	LD50 oral (rat): > 2000 mg/kg for all components	
Likely Exposure Routes:	Contact with eyes, skin, ingestion, inhalation	
Symptoms and Signs of	Eyes: May cause temporary eye irritation. May cause redness, pain and	
Exposure:	watering eyes.	
	Skin: Low skin irritation potential. May cause slight skin irritation.	
	Inhalation: Repeated or prolonged inhalation of mists may lead to	
	respiratory irritation.	
	Ingestion: Low toxicity. May cause digestive tract irritation, with	
	accompanying nausea, vomiting and diarrhea.	
Chronic Effects: Not Available		
Carcinogenetic:	None of this product's components are listed by IARC, ACGIH, OSHA,	
	NIOSH or NTP as carcinogenic.	
Mutagenicity:	Triazone is not mutagenic in an Ames Assay using Salmonella tyimurium.	

SECTION 12. ECOLOGICAL INFORMATION			
Ecotoxicity:	Mono- and dipotassium phosphates, Triazone:		
	Not Available		
	Urea:		
	LC50 (24 hr) Daphnia magna (Water flea): > 10000 mg/L.		
	Freshwater; static		
	LC50 – Poecilia retiulata (guppy): 17,500 mg/L for 96 hrs		
	Triazone: Not Available		
Other Adverse Effects: Inorganic phosphates have the potential to increase the growth of			
	freshwater algae, whose eventual death will reduce the available oxygen		
	for aquatic life.		
	Not harmful to ozone layer		

Not Available

Reproductive Toxicity:

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SECTION 13. DISPOSAL CONSIDERATIONS		
General Information: None		
<b>Disposal Instructions:</b> Agronomical land application at recommended rates or dispose of accordance with local/regional/national regulations.		

SECTION 14. TRANSPORT INFORMATION		
This material is not hazardous as defined by 49 CFR 172.101 by the US Department of		
Transportation		
Proper Shipping Name:	Not Applicable	
Hazard Class:	Not Applicable	
UN Identification #:	Not Applicable	
Packing Group:	Not Applicable	
Required Label(s):	Not Applicable	
<b>Emergency Response</b>	Not Applicable	
Guide Number:		
Marine Pollutant:	No	

SECTION 15. REGULATORY INFORMATION	
TSCA Inventory Status	All intentional ingredients listed on the TSCA inventory.
DSCL (EEC) Status	All intentional ingredients listed on the DSCL inventory.
United States – SARA Hazard Category:	No chemicals in this material have hazard classifications under SARA Title III, Sec 311 and 312
SARA Title III	This product contains the following substances subject to the reporting
Information:	requirements of Title III (EPCRA) of the Superfund Amendments and
	Reauthorization Act of 1986 and 40 CFR Part 372:
Monopotassium	CERCLA RQ (pounds): No
Phosphate,	SARA Reporting, 302: No
Dipotassium Phosphate,	SARA Reporting, 304: No
Urea,Triazone	SARA Reporting, 313: No
Federal Insecticide,	
Fungicide, and	This product is not a pesticide.
Rodenticide Act	
State Regulations:	Other state regulations may apply. Check individual state requirements.

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## **SECTION 16. OTHER INFORMATION**

Date of Revision:	5/27/2024, revision prepared in accordance with 29 CFR 1910.1200
	Appendix D to meet Global Harmonization Standards.
Disclaimer:	The information contained in this SDS refers only to the specific material
	designated and does not relate to any process or use with any other
	materials. This information is based on data believed to be accurate and
	reliable as of the date hereof. It is intended for use by persons possessing
	technical knowledge at their own discretion and risk. Because safety
	standards and regulations are subject to change and because Chemical
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