

GALENA PARK, TEXAS 77547

Safety Data Sheet Uri-Pel 24-0-11/12S Urea Treated with Anchor NBPT

**PHONE NUMBER 800-634-2861** 

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Uri-Pel 24-0-11/12S

**Urea Treated with Anchor NBPT** 

**Chemical Name:** Mixture of Inorganic Salts

**Guaranteed Analysis** 24% N, 0% P<sub>2</sub>O<sub>5</sub>, 11% K<sub>2</sub>O, 12% S,

**CAS Registry Number:** Not Applicable

**Product Use:** Dry Fertilizer For Soil Application to Improve Plant Growth

Supplier: American Plant Food Corp. 903 Mayo Shell Rd, Galena Park, TX 77802

Telephone: 800-634-2861

**Emergency Phone #s:** FOR CHEMICAL EMERGENCY

(Spill, Leak, Fire, Exposure or Accident) (800) 424-9300 CHEMTREC

FOR MEDICAL/HANDLING EMERGENCIES INFOTRAC USA: (800) 424-9300 CHEMTREC

## 2. SIGNAL WORD: WARNING



**EMERGENCY OVERVIEW** (800) 424-9300 CHEMTREC. Not flammable or explosive, but will decompose in extreme heat to produce toxic fumes of oxides of nitrogen ammonia, oxides of phosphorous, and oxides of potassium.

### MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION.

- Avoid contact with skin and clothing. Wash after handling.
- Wear appropriate personal protective equipment. (See Section 8 for additional information)

**Appearance and odor:** Mixture of white, grey and red granules

## POTENTIAL HEALTH EFFECTS (See Section 11 for additional information)

Primary Route (s) of Exposure: Dermal Contact, Eye Contact, Inhalation, Ingestion

Acute Exposure:

• Inhalation No known significant effects or critical hazards

• Eye Contact Irritating to eyes

• Skin Contact Practically non-toxic in contact with skin. Irritation to skin.

• Ingestion Practically non-toxic if swallowed.

Carcinogenicity: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.



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Chronic Effect/Developmental Repeated skin exposure can produce local skin destruction or

dermatitis. Repeated exposure to the eyes to a low level of dust

can produce eye irritation.

Medical Conditions Aggravated: Skin conditions, Eye conditions, Gastrointestinal condition

POTENTIAL ENVIRONMENTAL EFFECTS (See Section 12 for additional information)

This material is a water pollutant. Do Not let spilled or leaking material enter waterways.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

		CAS Number	Air Threshold Limit
Ingredients (See Section 8 for Exposure	%		Value
Limits)	(w/w)		
Urea	28%	57-13-6	15.00mgCO(NH <sub>2</sub> ) <sub>2</sub> /m <sup>3</sup>
Ammonium Sulfate	54%	7783-20-2	N/D
Di-ammonium Phosphate	0%	7783-28-0	N/D
Monoammonium Phosphate	%	7722-76-1	N/D
Potassium Chloride	18%	7447-40-7	N/D
Potassium Magnesium Sulfate	0%	14977-37-8	$10.00 \text{ mg/m}^3$
Polymer Coated Sulfur Coated Urea	0%	7704-34-9	$15.00 \text{ mg/m}^3$
Sodium Borate	0%	12280-03-4	10.00mg/m <sup>3</sup>
Copper Sulfate	0%	7758-99-8	N/D
Iron Oxysulfate	0%	1309-38-2 (iron oxide)	N/D
		7720-78-7 (ferrous sulfate)	
Manganese Sulfate	0%	10034-96-5	$5.00 \text{ mg/m}^3$
Sodium Molybdate	0%	10102-40-6	$5.00 \text{mg/m}^3$
Zinc Sulfate	0%	7733-02-0	N/D
(NBPT) N-(n-butyl)-thiophos phoric triamide	<1.0%	94317-64-3	3 mg/m3

### 4. FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. Get

medical attention.

**Eye Contact:** Check for and remove any contact lenses. Rinse immediately with plenty of water.

Get medical attention.

**Skin Contact:** Wash with soap and water. Get medical attention if symptoms occur.

**Ingestion:** Do Not induce vomiting. Never give anything by mouth to an unconscious person.

Get medical attention if symptoms appear.

### 5. FIRE FIGHTING MEASURES

**Conditions of Flammability:** Non Flammable

Flash Point (Method): N/A
Auto-Ignition Temperature: N/A

**Extinguishing Media:** This product is not flammable or combustible. If involved in a

fire, use water fog or spray, dry chemical, foam or carbon

dioxide extinguishing agents.



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**Fire Fighting Procedures:** Wear self-contained breathing apparatus, approved by NIOSH.

Do not wash material into any streams, waterways, drainage

ditches, or storm sewers, etc. Impound liquids used in

firefighting to prevent entry into streams, ditches, sewers, etc.

Not flammable or explosive.

Hazardous Combustion Products: Oxides of nitrogen, phosphorus and potassium. Ammonia

	Uaalthi	Fire:	Popotivity	Othow	
	Health:	Fire:	Reactivity:	Other:	
NFPA Hazard Rating	1	0	0	None	
[ 0 – Minimal	1 – Slight	2 – Moderate	3 – High	4 – Extreme J	

## 6. ACCIDENTAL RELEASE MEASURES

Spill/Leak: Safely stop source of spill. Restrict non-essential personnel from area. All

personnel involved in spill clean up should avoid skin and eye contact by

wearing appropriate personal protective equipment.

Cleanup: Sweep up spilled solid material, being careful not to create dust. Return

sweepings to stock or, if contaminated, place into a chemical waste container

for disposal according to local, state, and/or federal regulations.

### 7. HANDLING AND STORAGE

Store in cool, dry, well-ventilated area away from incompatible substances. Protect from physical damage. Avoid generating dust and the release of dust into the workplace. Refrain from eating, drinking, or smoking in work areas.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Applicable Exposure Limits:**

Fire & Explosion Hazards:

	OSHA -	- PELS	ACGIH	- TLVs	NIOSI	I – RELS
Chemical Name	(mg	$/ m^3$ )	$(mg/m^3)$		$(mg/m^3)$	
	TWA	STEL/CEIL (C)	TWA	STEL/CEIL (C)	TWA	STEL/CEIL (C)
Urea	15 Total 5 Respirable	N/D	N/D	N/D	N/D	N/D
Ammonium Sulfate	15 Total 5 Respirable	N/D	N/D	N/D	N/D	N/D
Monoammonium Phosphate	15 Total 5 Respirable	N/D	10 Total 3 Respirable	N/D	N/D	N/D
Potassium Chloride	15 Total 5 Respirable	N/D	N/D	N/D	N/D	N/D
Potassium Magnesium Sulfate	15 Total 5 Respirable	N/D	N/D	N/D	N/D	N/D
Poly Coated Sulfur Coated Urea	15 Total 5 Respirable	N/D	N/D	N/D	10	N/D
Sodium Borate	15 Total/5Resp		10 Total			
Copper Sulfate	1	N/D	1	N/D	1	N/D



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Iron Oxysulfate	1	N/D	1	N/D	1	N/D	
Manganese Sulfate	5 Total	N/D	2	N/D	1	3	
Sodium Molybdate	5 Total	N/D	5 Total	N/D	N/D	N/D	
Zinc Sulfate	15 Total 5 Respirable	N/D	2	10	5	15	
(NBPT) N-(n-butyl)-thiophos phoric triamide	15 Total 5 Respirable	N/D	5	10	5	3	

Legend:

CEIL: Ceiling Exposure Limit
STEL: Short Term Exposure Limit
N/D Not Determined

REL: Recommended Exposure Limit
TLV: Threshold Limit Value

ACGIH: American Conference of Governmental Industrial Hygienists TWA: Time-Weighted Average

NIOSH: National Institute for Occupational Safety and Health WEEL: Workplace Environmental Exposure Level OSHA: Occupational Safety and Health Administration

Personal Protective Equipment (PPE)

• Protective The hazard potential of this material is low. Where there is large-scale use of this material and significant potential for worker contact, gloves and long sleeved work clothes or disposable

coveralls may be necessary. Eye protection should be worn where dust is generated and there is

a potential that eye contact may occur.

• Ventilation: Use adequate local or general ventilation where necessary to maintain the concentrations of dust

well below the recommended occupational exposure limits for general particulates. Not

Otherwise Specified (NOS).

• Respirators: Where dust is generated and cannot be controlled to within acceptable levels by engineering

means, use appropriate NIOSH-approved respiratory protection equipment a 42CFR84 Class N,

R or P-95 particulate filter cartridge.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance/Odor:       Solid, pale blue powder, odorless         Boiling Point:       N/A         Bulk Density:       57-65 lbs./cubic foot depending on major component         Cloud Point:       N/A         Evaporation Rate (Butyl Acetate=1):       N/A         Melting Point:       N/A         Odor Threshold:       N/A         pH:       5.5-7.5 depending on concentration of major component at 5% concentration         Partition Coefficient (n-octanol/water):       N/A         Pour Point:       N/A         Solubility in water:       85-95% Soluble in Water depending on concentration of major component         Solubility in other solvents:       N/A         Specific Gravity (H₂O = 1):       N/A         V/A       N/A         Vapor Density (Air = 1):       N/A         Viscosity:       N/A         Volatiles (% by weight):       N/A         Other-Decomposition temperature       N/A         Conditions of Flammability:       Non Flammable         Flash Point (Method):       N/A         Upper Flammable Limit (% by volume):       N/A         Lower Flammable Limit (% by volume):       N/A         <: less than       >: gerater than       ≈: approximately	, , , , , , , , , , , , , , , , , , ,	
Bulk Density:       57-65 lbs./cubic foot depending on major component         Cloud Point:       N/A         Evaporation Rate (Butyl Acetate=1):       N/A         Melting Point:       N/A         Odor Threshold:       N/A         pH:       5.5-7.5 depending on concentration of major component at 5% concentration         Partition Coefficient (n-octanol/water):       N/A         Pour Point:       N/A         Solubility in water:       85-95% Soluble in Water depending on concentration of major component         Solubility in other solvents:       N/A         Specific Gravity (H <sub>2</sub> O = 1):       N/A         Vapor Density (Air = 1):       N/A         Volatiles (% by weight):       N/A         Volatiles (% by weight):       N/A         Other-Decomposition temperature       N/A         Conditions of Flammability:       Non Flammable         Flash Point (Method):       N/A         Upper Flammable Limit (% by volume)       N/A         Lower Flammable Limit (% by volume):       N/A         Auto-Ignition Temperature       N/A	Physical State/Appearance/Odor:	Solid, pale blue powder, odorless
Cloud Point: N/A  Evaporation Rate (Butyl Acetate=1): N/A  Melting Point: N/A  Odor Threshold: N/A  pH: 5.5-7.5 depending on concentration of major component at 5% concentration  Partition Coefficient (n-octanol/water): N/A  Pour Point: N/A  Solubility in water: 85-95% Soluble in Water depending on concentration of major component  Solubility in other solvents: N/A  Specific Gravity (H <sub>2</sub> O = 1): N/A  Vapor Density (Air = 1): N/A  Viscosity: N/A  Volatiles (% by weight): N/A  Other-Decomposition temperature N/A  Conditions of Flammability: Non Flammable  Flash Point (Method): N/A  Upper Flammable Limit (% by volume) N/A  Lower Flammable Limit (% by volume): N/A  Auto-Ignition Temperature N/A	Boiling Point:	N/A
Evaporation Rate (Butyl Acetate=1): N/A  Melting Point: N/A  Odor Threshold: N/A  pH: 5.5-7.5 depending on concentration of major component at 5% concentration  Partition Coefficient (n-octanol/water): N/A  Pour Point: N/A  Solubility in water: 85-95% Soluble in Water depending on concentration of major component  Solubility in other solvents: N/A  Specific Gravity (H <sub>2</sub> O = 1): N/A  Vapor Density (Air = 1): N/A  Viscosity: N/A  Volatiles (% by weight): N/A  Other-Decomposition temperature N/A  Conditions of Flammability: Non Flammable  Flash Point (Method): N/A  Upper Flammable Limit (% by volume) N/A  Lower Flammable Limit (% by volume): N/A  Auto-Ignition Temperature N/A	Bulk Density:	57-65 lbs./cubic foot depending on major component
Melting Point:N/AOdor Threshold:N/ApH:5.5-7.5 depending on concentration of major component at 5% concentrationPartition Coefficient (n-octanol/water):N/APour Point:N/ASolubility in water:85-95% Soluble in Water depending on concentration of major componentSolubility in other solvents:N/ASpecific Gravity (H2O = 1):N/AVapor Density ( Air = 1):N/AViscosity:N/AVolatiles (% by weight):N/AOther-Decomposition temperatureN/AConditions of Flammability:Non FlammableFlash Point (Method):N/AUpper Flammable Limit (% by volume)N/ALower Flammable Limit (% by volume):N/AAuto-Ignition TemperatureN/A	Cloud Point:	N/A
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Partition Coefficient (n-octanol/water):  N/A  Pour Point:  N/A  Solubility in water:  Solubility in other solvents:  N/A  Specific Gravity (H <sub>2</sub> O = 1):  Vapor Density (Air = 1):  Viscosity:  Volatiles (% by weight):  Other-Decomposition temperature  Conditions of Flammability:  N/A  Upper Flammable Limit (% by volume)  Lower Flammable Limit (% by volume):  Auto-Ignition Temperature  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Odor Threshold:	N/A
Pour Point:N/ASolubility in water:85-95% Soluble in Water depending on concentration of major componentSolubility in other solvents:N/ASpecific Gravity (H2O = 1):N/AVapor Density (Air = 1):N/AViscosity:N/AVolatiles (% by weight):N/AOther-Decomposition temperatureN/AConditions of Flammability:Non FlammableFlash Point (Method):N/AUpper Flammable Limit (% by volume)N/ALower Flammable Limit (% by volume):N/AAuto-Ignition TemperatureN/A	pH:	5.5-7.5 depending on concentration of major component at 5% concentration
Solubility in water:  Solubility in other solvents:  N/A  Specific Gravity (H <sub>2</sub> O = 1):  N/A  Vapor Density (Air = 1):  N/A  Viscosity:  N/A  Volatiles (% by weight):  Other-Decomposition temperature  N/A  Conditions of Flammability:  Flash Point (Method):  Upper Flammable Limit (% by volume)  Lower Flammable Limit (% by volume):  Auto-Ignition Temperature  N/A  N/A  Soluble in Water depending on concentration of major component  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Partition Coefficient (n-octanol/water):	N/A
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Pour Point:	N/A
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		85-95% Soluble in Water depending on concentration of major component
Vapor Density ( Air = 1):       N/A         Viscosity:       N/A         Volatiles (% by weight):       N/A         Other-Decomposition temperature       N/A         Conditions of Flammability:       Non Flammable         Flash Point (Method):       N/A         Upper Flammable Limit (% by volume)       N/A         Lower Flammable Limit (% by volume):       N/A         Auto-Ignition Temperature       N/A		N/A
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Volatiles (% by weight):       N/A         Other-Decomposition temperature       N/A         Conditions of Flammability:       Non Flammable         Flash Point (Method):       N/A         Upper Flammable Limit (% by volume)       N/A         Lower Flammable Limit (% by volume):       N/A         Auto-Ignition Temperature       N/A	Vapor Density (Air = 1):	N/A
Other-Decomposition temperature N/A  Conditions of Flammability: Non Flammable  Flash Point (Method): N/A  Upper Flammable Limit (% by volume) N/A  Lower Flammable Limit (% by volume): N/A  Auto-Ignition Temperature N/A	Viscosity:	N/A
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Flash Point (Method):  Upper Flammable Limit (% by volume)  Lower Flammable Limit (% by volume):  N/A  Auto-Ignition Temperature  N/A	Other-Decomposition temperature	N/A
Upper Flammable Limit (% by volume) N/A Lower Flammable Limit (% by volume): N/A Auto-Ignition Temperature N/A	~	Non Flammable
Lower Flammable Limit (% by volume):       N/A         Auto-Ignition Temperature       N/A		N/A
Auto-Ignition Temperature N/A		N/A
	Lower Flammable Limit (% by volume):	N/A
<: less than >: greater than = : approximately	Auto-Ignition Temperature	N/A
	<: less than	>: greater than =: approximately



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### 10. STABILITY AND REACTIVITY

This product is stable at ambient temperatures and atmospheric Stability:

pressures.

Incompatibilities/Conditions to avoid: Avoid contact with strong alkaline or acid compounds.

Ammonia. Oxides of Nitrogen, Phosphorous, and Potassium. **Decomposition Products:** 

### 11. TOXICOLOGICAL INFORMATION

#### **TOXICITY DATA**

Ingredient Name	TEST	RESULT	ROUTE	SPECIES
Urea	LD50	8471 mg/kg	ORAL	RAT
Ammonium Sulfate	LD50	3000 mg/kg	ORAL	RAT
Diammonium Phosphate	LD50	2000 mg/kg	Oral	RAT
Monoammonium Phosphate	LD50	2000 mg/kg	ORAL	RAT
	LD50	5000 mg/kg	DERMAL	RAT
Potassium Chloride	LD50	1500 mg/kg	ORAL	MOUSE
	LD50	3750 mg/kg	ORAL	RAT
Sodium Borate	LD50	2550 mg/kg	ORAL	RAT
Copper Sulfate	LD50	300 mg/kg	ORAL	RAT
		>2000 mg/kg	DERMAL	RAT
Iron Oxysulfate	LD50	1520 mg/kg	ORAL	MOUSE
Manganese Sulfate				
Sodium Molybdate	LD50	520 mg/kg	ORAL	RAT
Zinc Sulfate	LD50	1710 mg/kg	ORAL	RAT
(NBPT) N-(n-butyl)-	LD50	2823 mg/kg	ORAL	RAT
thiophos phoric triamide				

**GENERAL:** The form in which this material is sold is considered to be relatively non-toxic. Direct contact may cause local irritation, but is not expected to cause significant SKIN/EYE:

tissue damage.

Acute inhalation may result in irritation, but is not expected to cause significant **INHALATION:** 

harmful effects. Symptoms may include discomfort, coughing, sneezing, and

shortness of breath.

**INGESTION:** Ingestion of large doses can irritate the stomach, resulting in abdominal pain, nausea,

diarrhea, and vomiting.

## 12. ECOLOGICAL INFORMATION

No data available on the mixture. Components within the mixture can be damaging **Ecotoxicity:** 

to aquatic organisms.

**Environmental** 

Fate: the aquatic environment can cause algae growth which may increase turbidity and

displace oxygen resulting in a hazard to fish or other marine organisms. Will

Product is not expected to bio accumulate. Release of components in this mixture to



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disperse with the current. Release to watercourses may cause effects down stream from the point of release. Avoid spills or release to watercourse.

## 13. DISPOSAL CONSIDERATIONS

Waste & Container Disposal:

Do not wash down drain. Put uncontaminated material back into process if at all possible. Place contaminated material in suitable, labeled containers for disposal.

Dispose of waste material consistent with the requirements of waste disposal

authorities.

## 14. TRANSPORT INFORMATION

<b>Shipping Information:</b>	Not regulated for transport
Required Labels:	N/A
<b>Environmentally Hazardous Substances</b>	N/A
[49 CFR 172.101, Appendix A]:	

## 15. REGULATORY INFORMATION

Regulatory Lists:		
Lucia d'auta l'ata de la TGCA d'assentante	V	
Ingredients listed on TSCA inventory	Yes	
Hazardous work hazard communication standard	No	
CERCLA Section 103 Hazardous Substances	No	
EPCRA Section 302 Extremely Hazardous Substance	No	
EPCRA Section 311/312 Hazard Categories	No	
EPCRA Section 313 Toxic Release Inventory	No	

## **16. OTHER INFORMATION**

Prepared by:	American Plant Food Corp. 903 Mayo Shell Rd, Galena Park, TX 77802
<b>Technical Staff</b>	Telephone: 800-634-2861



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