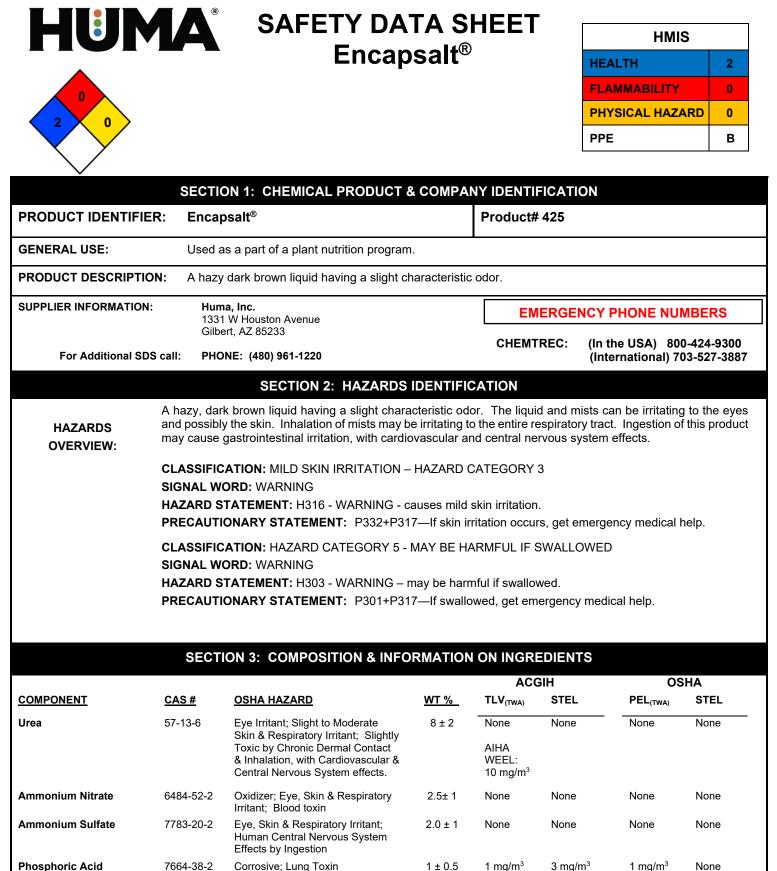
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NDA = No Data Available N/A = Not Applicable

		SECTION 4: FIRST AID MEASURES			
INHALATION:		If inhaled, immediately move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.			
EYE CONTACT		In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower lids occasionally. Remove contact lenses, if worn. Get medical attention if irritation persists.			
SKIN CONTAC	3	In case of contact, flush skin with plenty of clean running water. Remove contaminated clothing and shoes and wash before reuse. If irritation occurs and persists, get medical attention.			
INGESTION:	If large quantities of the directed to do so by me	If large quantities of this product are swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.			
NOTE TO PHYSICIANS:	ingested, consideration possible central nervous	Based on component information, this product may be slightly to moderately toxic by ingestion. If a large amount is ingested, consideration should be given to careful endoscopy as stomach or esophageal irritation may occur, with possible central nervous system effects following absorption into the blood stream. Careful gastric lavage with an endotracheal tube in place should be considered. Treat exposure symptomatically.			
	S	SECTION 5: FIRE FIGHTING MEASURES			
Flashpoint a	and Method: This product	does not flash.			
Flammable	Limits (in air, % by volume)	Lower: Not applicable Upper: Not applicable			
Autoignitior	Temperature: Not applic	able			
GENERAL HAZ	ARD: This product is an decomposition produ	aqueous solution of organic and inorganic compounds. It may produce hazardous ucts.			
FIRE FIGHTING	INSTRUCTIONS:	<b>EXTINGUISHING MEDIA:</b> Water, foam, CO <sub>2</sub> or dry chemicals. Use a water spray or fog to cool the containers exposed to the heat of a fire.			
FIRE FIGHTING	EQUIPMENT:	Fire fighters should wear full protective equipment, including self-contained breathing apparatus.			
HAZARDOUS C	OMBUSTION PRODUCTS:	When heated to dryness and decomposition, it emits toxic Ammonia gas, with toxic carbon monoxide, carbon dioxide, phosphorus oxides, nitrogen oxides, sulfur oxides and potassium oxide with trace or ultra-trace toxic oxide amounts, of iron, manganese, magnesium, calcium, zinc and sodium.			
SECTION 6: ACCIDENTAL RELEASE MEASURES					
RELEASE TO LAND:	a vacuum truck, or absorb disposal, or satellite accu appropriate for neutralizing	rotective equipment and clothing, dike the spill and pick up the bulk of liquid using pumps or o the liquid in sand or a commercial absorbent. Place in approved containers for recovery, umulation. Neutralize the alkalinity, of the remaining liquid, using a dilute acid solution g alkaline liquids. Liberally cover the spill area with sodium bicarbonate. Flush the spill area sates for disposal or sewer, as appropriate.			
RELEASE TO WATER:		ective equipment and clothing if contact with hazardous material can occur. Stop or divert nated water and remove for disposal and/or treatment. As appropriate, notify all downstream nation.			
		SECTION 7: HANDLING AND STORAGE			
STORAGE TEM	IPERATURE: Ambient	STORAGE PRESSURE: Ambient			
GENERAL:	Protect the eyes, skin and clot	lated area, away from incompatible materials and products. Do not store in direct sunlight. thing from contact with this product. Wear the recommended protective equipment. Avoid Use with adequate ventilation. Do not take internally. Wash thoroughly after handling this			

		ONTROLS / PERSONAL PROTEC		
CONTROL MEASURES:	Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions, in the work area, below an ACGIH-TLV, OSHA-PEL or those levels that may cause irritation.			
RECOMMENDED PE	RSONAL PROTECTIVE EQUIPMENT			
RESPIRATOR:	Respiratory protection is not normally required. If use produces mists or aerosols that may cause irritation, a NIOSH approved half mask or full facepiece respirator equipped with a good mist / particulate cartridge or supplied air is recommended. <b>Note:</b> Always consult the respirator manufacturer's data when determining the suitability of respiratory protective devices prior to use.			
EYES:	Wear chemical goggles (recommended by ANSI Z87.1-1979), unless a full face shield is worn. <b>Note:</b> Always consult the protective eyewear manufacturer's data when determining the suitability of protective eyewear prior to use.			
GLOVES:	Wear Neoprene, Nitrile, Butyl Rubber or Natural Rubber gloves. <b>Note:</b> Always consult the glove manufacturer's permeation data when determining the suitability of gloves prior to use.			
CLOTHING & EQUIPMENT:	Wear a Neoprene, Nitrile, Butyl Rubber or Natural Rubber apron, or full protective clothing when handling this product. An eye wash station and safety shower should be available in the work area. <b>Note:</b> Always consult the clothing/equipment manufacturer's permeation data when determining the suitability of clothing/equipment prior to use.			
FOOTWEAR:	Wear Neoprene, Nitrile, Butyl Rubber or Natural Rubber boots. <b>Note:</b> Always consult the footwear manufacturer's permeation data when determining the suitability of footwear prior to use.			
	<b>SECTION 9: PHYSICA</b>	L AND CHEMICAL PROPERTIES		
Appearance:	A hazy dark brown	Bulk Density (pounds/ft <sup>3</sup> ):	Not applicable	
Physical State:	Liquid	Vapor Pressure:	No data available	
Odor:	Slight, characteristic	Vapor Density (air=1):	No data available	
Odor Threshold:	Not applicable	Evaporation Rate (n-Butyl Acetate=1):	No data available	
Molecular Formula:	Mixture	VOC Content / Organic Matter:	Nil / 9.0%	
Molecular Weight:	Not applicable	% Volatile:	No data available	
Boiling Point:	Greater than 100° C. (212° F.)	Solubility in H₂O:	Soluble	
Freezing/Melting Point:	Less than 0° C. (32° F.)	Octanol/Water Partition Coefficient:	No data available	
Specific Gravity:	1.10 @ 20° C.	pH (as is):	6.0 - 7.0	
Density (pounds/gallon):	Approximately 9.18	pH (1% solution):	No data available	
	SECTION 10: ST	ABILITY AND REACTIVITY		
GENERAL: This r	product is stable and bazardous polymeriz	ation will not occur		

CONDITIONS TO AVOID:	Store in a cool dry place,	do not store in direct sunlight.	Keep from freezing.

**INCOMPATIBLE MATERIAL:** Oxidizers, caustics & strong alkali and all acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

**DUCTS:** When heated to dryness and decomposition, it emits toxic Ammonia gas, with toxic oxides of carbon, phosphorus, nitrogen, sulfur and potassium oxide with trace or ultra-trace toxic oxide amounts, of iron, manganese, magnesium, calcium, zinc and sodium.

SENSITIVITY TO MECHANICAL IMPACT: This product is <u>not</u> sensitive to mechanical impact.

**SENSITIVITY TO STATIC DISCHARGE:** This product is <u>not</u> sensitive to static discharge.

# SECTION 11: TOXICOLOGICAL INFORMATION

Components:	<u>Urea</u>	Phosphoric Acid	
-			
Eye Contact: Skin Contact:	No data available No data available	Rabbit: 119 mg; Severe Rabbit: 595 mg/24 hours; Severe	
Oral Rat LD₅₀:	8,471 mg/kg	1,530 mg/kg	
Dermal Rabbit LD <sub>50</sub> :	No data available (Rabbit, Subcutaneous LD <sub>Lo</sub> : 3 gm/kg)	2,740 mg/kg	
Inhalation Rat LC <sub>50</sub> :	No data available (Rat, Inhalation, Chronic – Multiple Dose, 288 mg/m <sup>3</sup> /17 weeks; Toxic effects: Kidney, Ureter & Bladder – Other changes in urine composition; Blood – Other changes; Nutritional and gross metabolic changes.)	Greater than 850 mg/m³/1 hour	
Human Data:	Human: 22 mg/3 days; Mild	Unreported Route Man $LD_{Lo}$ : 220 mg/kg	
Other Toxicological Data:	Rat, Dermal, Chronic – Multiple Dose, 3,024 mg/kg/4 weeks; Toxic effects: Liver – Changes in Liver weight; Endocrine – Changes in Thymus weight; Death.	Oral Man TD <sub>Lo</sub> : 1,286 uL/kg	
Carcinogenicity:	Oral Rat TD <sub>Lo</sub> : 821 gm/kg/1 year; Tumorigenic – Neoplastic by RTECS criteria; Blood – Tumors; Blood – Lymphomax including Hodgkin's disease.	No data available	
Teratogenicity:	Intraplacental Woman TD <sub>Lo</sub> : 1,400 mg/kg (female 16 Weeks pregnant); Effects on Fertility - Abortion	No data available	
Mutagenicity:	Human DNA Inhibition; lymphocyte: 600 mmol/Liter	No data available	
Synergistic Products:	None reported	None reported	
Target Organs:	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract	
Medical Conditions Aggravated By Exposure:	Skin, Respiratory or Cardiac disorders	Skin, Respiratory or Gastrointestinal disorders	
Components:	Ammonium Sulfate		
Eye Contact:	No data available		
Skin Contact:	No data available		
Oral Rat LD₅₀:	2,840 mg/kg		
Dermal Rabbit LD₅₀:	No data available		
Inhalation Rat LC <sub>50</sub> :	No data available		
Human Data:	Oral Man TD <sub>Lo</sub> : 1,500 mg/kg (Gastrointestinal effects)		
Other Toxicological Data:	Intraperitoneal Mouse LD <sub>50</sub> : 610 mg/kg		
Carcinogenicity:	No data available		
Teratogenicity:	No data available		
Mutagenicity:	No data available		
Synergistic Products:	None reported		
Target Organs:	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System		
Medical Conditions Aggravated By Exposure:	Skin or Respiratory disorders		

#### **ENVIRONMENTAL FATE:** This product is soluble in water and is not expected to affect the pH of water. No specific environmental fate data is available. The aquatic toxicity for this product has not been determined. SECTION 13: DISPOSAL CONSIDERATIONS RCRA 40 CFR 261 CLASSIFICATION: Non-RCRA Hazardous Waste (United States) **U.S. EPA WASTE NUMBER/DESCRIPTION:** Not Applicable If this product is disposed of as shipped, it does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of a hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D due to toxicity. As a non-RCRA hazardous liquid waste, it should be disposed of in accordance with all local, state, and federal regulations. Consult state or local officials for proper disposal method. **SECTION 14: TRANSPORTATION INFORMATION** DOT PROPER SHIPPING NAME: Not DOT Regulated (United States) Hazard Class: N/A UN Number: N/A Packing Group: N/A Primary Label: None Subsidiary Label(s): None Primary/Subsidiary Placards: None DOT Reportable Quantity (RQ): 50,000 pounds (5,121 gallons) Not Listed **RQ for Product:** Marine Pollutant: No 2012 North American Emergency Response Guidebook No.: Not Applicable **TDG PROPER SHIPPING NAME:** Not Restricted UN Number: Hazard Class: N/A N/A Packing Group: N/A Primary Label: None Subsidiary Label(s): None Primary/Subsidiary Placards: None TDG Reportable Quantity (RQ): \* Not Applicable **TDG Schedule XII:** Not listed Regulated Limit (RL): \*\* Not Applicable Not Listed **RL for Product:** Other Shipping Information: None Canadian Transportation of Dangerous Goods Regulations (TDGR), Part IX, Table I, Quantities or levels for Immediate Reporting: releases of reportable quantities, RQ, that meet the definition of a "dangerous occurrence" (a threat to life, health, property, or the environment) must be reported to the appropriate authorities as outlined in TDGR 9.13(1) and 9.14(1). \*\* Reporting to Environment Canada is required for any releases exceeding the regulated limits, RL, of 9.2 materials (primary or secondary). The regulated limits are found in Schedule XIII of the TDGR. SECTION 15: REGULATORY INFORMATION Urea Ammonium Sulfate **COMPONENTS: Phosphoric Acid**

HA Target Organs:	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System
arcinogenic Potential:			
Regulated by OSHA:	No	No	No
Listed on NTP Report:	No	No	No
Listed by IARC:	No	No	No
IARC Group:	Not applicable	Not applicable	Not applicable
	Not listed	Not listed	Not listed
ACGIH Appendix A:			
ACGIH Appendix A: A1 Confirmed Human:	Not applicable	Not applicable	Not applicable

## SECTION 12: ECOLOGICAL INFORMATION

### **ENVIRONMENTAL CONSIDERATIONS:**

SEC	CTION 15: REGULAT	ORY INFORMATION (Co	ntinued from Page 5)	
COMPONENTS:	<u>Urea</u>	Phosphoric Acid	Ammonium Sulfate	
U.S. EPA Requirements				
Release Reporting				
<b>CERCLA</b> (40 CFR 302)				
Listed Substance:	Not listed	Yes	Not listed	
Reportable Quantity:	Not applicable	5,000 pounds	Not applicable	
Category:	Not applicable	D	Not applicable	
RCRA Waste No.:	Not applicable	Not listed	Not applicable	
Unlisted Substance:	Not applicable	Not applicable	Not applicable	
Reportable Quantity:	Not applicable	Not applicable	Not applicable	
Characteristic:	Not applicable	Not applicable	Not applicable	
RCRA Waste No.:	Not applicable	Not applicable	Not applicable	
SARA TITLE III				
Section 302 & 303 (40 CFR 355):				
Listed Substance:	Not listed	Not listed	Not listed	
Reportable Quantity:	Not applicable	Not applicable	Not applicable	
Planning Threshold:	Not applicable	Not applicable	Not applicable	
Section 311 & 312 (40 CFR 370):				
Hazard Categories (product):	Fire: <u>N</u> Sudden Re	elease of Pressure: <u>N</u> Reac	tive: <u>N</u> Acute Health: <u>Y</u>	Chronic Health: N
Planning threshold:	10,000 pounds	10,000 pounds	10,000 pounds	
Section 313 (40 CFR 372):				
Listed Toxic Chemical:	Not listed	No (Delisted in June 2000)	e Yes (Aqua Ammonia)	
Reporting Threshold:	Not applicable	Not applicable	10,000 pounds	
U.S. TSCA Status				
	Vac	Yes	Yes	
Listed (40 CFR 710):	Yes	res	res	
State Regulations				
State of California: Safe Drinking	g Water and Toxins Enford	cement Act, 1986 (Proposition	65):	
Carcinogen:	No	No	No	
Reproductive Toxin:	No	No	No	
Other Regulations				
State Right To Know Laws:	None known	MA, NJ, PA		
Canadian Regulations				
Product Information:				
Controlled Product:	Yes			
WHMIS Hazard Symbols:	Material Causing Other	Toxic Effects		
WHMIS Class & Division:	D.2B			
Ingredient Information:				
IDL Substance:	No	Yes	No	
DSL or NDSL Lists:	DSL	DSL	DSL	
USL OF NUSL LIETS.				

	SECTION 16: OTHER INFORMATION
EPA Registration number:	Not applicable
Approved Product Uses:	Used as part of a plant nutrition program.
Special Notes:	
birth defects or other repro	ctured, or formulated to contain substances, which the State of California has found to cause cancer and/or ductive harm. However, as it contains mined minerals, this product may contain trace (parts per million) or ) of elements known to the State of California to cause cancer, birth defects or other reproductive harm.
Special instructions:	
Store Encapsalt <sup>®</sup> in a cool,	dry, well-ventilated area away from incompatible materials and products.
Do not add this product to s	strong alkali or caustic materials, as this will liberate toxic, corrosive Ammonia gas.
SDS Revision Information:	Revised Date: 8/21/2023
SDS Distributed by: Huma, I	Inc.

Prepared By: Anna Carpenter	Date Prepared:	October 20, 2014
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