



HMIS		
HEALTH	2	
FLAMMABILITY	0	
PHYSICAL HAZARD	0	
PPE	В	

2	0

PRODUCT IDENTIFIER: Lucky 7® Product# 777

GENERAL USE: Used as a part of a plant nutrition program.

PRODUCT DESCRIPTION: A slightly hazy, purple to brown liquid having a slight characteristic odor.

SUPPLIER INFORMATION: Huma, Inc.

> 1331 W Houston Avenue Gilbert, AZ 85233

For Additional SDS call: PHONE: (480) 961-1220 **EMERGENCY PHONE NUMBERS**

CHEMTREC: (In the USA) 800-424-9300

(International) 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

HAZARDS OVERVIEW: A slightly hazy, purple to brown liquid having a slight characteristic odor. The liquid and mists may be irritating to the eyes and skin. Inhalation of mists may be irritating to the entire respiratory tract. Ingestion of this product may cause gastrointestinal irritation, cardiovascular and central nervous system effects.

CLASSIFICATION: MILD SKIN IRRITATION – HAZARD CATEGORY 3

SIGNAL WORD: WARNING

HAZARD STATEMENT: H316 - WARNING - causes mild skin irritation.

PRECAUTIONARY STATEMENT: P332+P317—If skin irritation occurs, get emergency medical help.

CLASSIFICATION: HAZARD CATEGORY 5 - MAY BE HARMFUL IF SWALLOWED

SIGNAL WORD: WARNING

HAZARD STATEMENT: H303 - WARNING - may be harmful if swallowed.

PRECAUTIONARY STATEMENT: P301+P317—If swallowed, get emergency medical help.

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT		ACGIH			OSHA		
	CAS#	OSHA HAZARD	<u>WT %</u>	$TLV_{(TWA)}$	STEL	$PEL_{(TWA)}$	STEL
Phosphoric Acid	7664-38-2	Corrosive; Lung Toxin	12 ± 2	1 mg/m ³	3 mg/m ³	1 mg/m ³	None
Ammonium Nitrate	6484-52-2	Oxidizer; Eye, Skin & Respiratory Irritant; Blood toxin	11 ± 2	None	None	None	None
Urea	57-13-6	Eye Irritant; Slight to Moderate Skin & Respiratory Irritant; Slightly Toxic by Chronic Dermal Contact & Inhalation, with Cardiovascular & Central Nervous System effects.	9 ± 1	None AIHA WEEL: 10 mg/m³	None	None	None
Potassium Nitrate	7757-79-1	Oxidizer; Eye, Skin & Respiratory Irritant; Toxic by Ingestion	7 ± 1	None	None	None	None
Magnesium Sulfate	7487-88-9	Eye Irritant; Slight to Moderate Skin & Respiratory Irritant; Slightly toxic by Ingestion with Central Nervous System Effects	3 ± 1	None	None	None	None
Ammonium Sulfate	7783-20-2	Eye, Skin & Respiratory Irritant	1.5 ± 0.5	None	None	None	None

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 CONTACT: 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 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:

Based on component information, this product can be slightly too 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.

SECTION 5: FIRE FIGHTING MEASURES

Flashpoint and Method: This product does not flash.

Flammable Limits (in air, % by volume) Lower: Not applicable Upper: Not applicable

Autoignition Temperature: Not applicable

GENERAL HAZARD: This product is an aqueous, acidic solution of organic and inorganic compounds. The Uniform Fire Code health

hazard classification for this product is: Irritant. It may produce hazardous decomposition products.

FIRE FIGHTING INSTRUCTIONS: EXTINGUISHING MEDIA: Water, foam, CO₂ 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 COMBUSTION PRODUCTS: When heated to dryness and decomposition, it emits toxic Ammonia gas, carbon

monoxide, carbon dioxide, phosphorus oxides, nitrogen oxides, magnesium, sulfur oxides and potassium oxide with trace or ultra-trace toxic oxide amounts, of, iron,

manganese, molybdenum, calcium, zinc, boron, copper and sodium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

RELEASE TO LAND:

Wearing recommended protective equipment and clothing, dike the spill and pick up the bulk of liquid using pumps or a vacuum truck, or absorb the liquid in sand or a commercially absorbent material. Place in approved containers for recovery, disposal, or satellite accumulation. Neutralize the acidity, of the remaining liquid, using sodium bicarbonate, limestone, or other agent appropriate for neutralizing acidic liquids, that will not release Ammonia gas.

Flush the spill area with water; collect the rinsates for disposal or sewer, as appropriate.

Note: This product contains Ammonium Nitrate and Potassium Nitrate, both are oxidizing fertilizers. Do not allow this concentrated product to dry in contact with combustible organic materials or reducing agents as a reaction may

occur, releasing heat and possibly toxic gasses.

RELEASE TO WATER:

Wear recommended protective equipment and clothing if contact with hazardous material can occur. Stop or divert water flow. Dike contaminated water and remove for disposal and/or treatment. As appropriate, notify all

downstream users of possible contamination.

SECTION 7: HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient STORAGE PRESSURE: Ambient

GENERAL: Store in a cool, dry, well-ventilated, area away from incompatible materials and products. Protect eyes, skin and clothing from contact with this product. Wear recommended personal protective equipment when handling this product. Avoid

breathing vapors or mists. Use with adequate ventilation. Do not take internally. Keep the container tightly closed when

not in use. Wash thoroughly after handling this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions, in the work area,

MEASURES: below the OSHA-PEL, ACGIH-TLV or levels that may cause irritation.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR: Respiratory protection is not normally required. If use produces mists 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. **Note:** 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 facepiece respirator is worn. **Note:**

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. Note: Always consult the glove manufacturer's

permeation data when determining the suitability of gloves prior to use.

CLOTHING & If contact is likely, wear a Neoprene, Nitrile, Butyl Rubber, or Natural Rubber apron when handling this product.

An eye wash station and safety shower should be available in the work area. **Note:** Always consult the clothing/equipment manufacturer's permeation data when determining the suitability of clothing/equipment prior to

use.

EQUIPMENT:

FOOTWEAR: In cleaning up a spill or if contact is likely, wear Neoprene, Nitrile, Butyl Rubber, or Natural Rubber boots. Note:

Always consult the footwear manufacturer's permeation data when determining the suitability of footwear prior to

use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES				
Appearance:	Slightly hazy, purple to brown	Bulk Density (pounds/ft³):	Not applicable	
Physical State:	Liquid	Vapor Pressure:	No data available	
Odor:	Slight, characteristic	Vapor Density (air=1):	No data available	
Odor Threshold:	No data available	Evaporation Rate (n-Butyl Acetate=1):	No data available	
Molecular Formula:	Mixture	VOC Content / Organic Matter:	No data available / 7.0%	
Molecular Weight:	Not applicable	% Volatile:	No data available	
Boiling Point:	Greater than 100° C. (212° F.)	Solubility in H ₂ O:	Soluble	
Freezing/Melting Point:	Less than 0° C. (32° F.)	Octanol/Water Partition Coefficient:	No data available	
Specific Gravity:	1.30 @ 20° C.	pH (as is):	3.5 - 4.5	
Density (pounds/gallon):	Approximately 10.85	pH (1% solution):	No data available	

SECTION 10: STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

CONDITIONS TO AVOID: Do not store this product below 50° F (10° C) or above 90° F (30° C)

INCOMPATIBLE MATERIAL: Oxidizers, caustics & strong alkali, cyanides, sulfides, sulfites, chlorine releasers, Aluminum,

Magnesium, Zinc and alloys of these metals.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to dryness and decomposition, it emits toxic Ammonia gas with toxic

oxides of carbon, phosphorus, nitrogen, magnesium, sulfur and potassium with trace or ultra-trace toxic oxide amounts, of, iron, manganese, calcium, zinc, boron,

copper and sodium plus irritating smoke.

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

SENSITIVITY TO STATIC DISCHARGE: This product is not sensitive to static discharge.

SECTION 11: TOXICOLOGICAL INFORMATION

Components: Phosphoric Acid Ammonium Nitrate

Eye Contact: Rabbit: 119 mg; Severe No data available

Skin Contact: Rabbit: 595 mg/24 hours; Severe No data available

Oral Rat LD₅0: 1,530 mg/kg 2,217 mg/kg

Dermal Rabbit LD₅₀: 2,740 mg/kg No data available

Inhalation Rat LC₅₀: Greater than 850 mg/m³/1 hour No data available

Human Data: Unreported Route Man LD_{Lc}: 220 mg/kg No data available

Other Toxicological Data: Oral Man TD_{Lo}: 1,286 uL/kg No data available

Carcinogenicity: No data available No data available

Teratogenicity: No data available No data available

Mutagenicity:No data availableNo data availableSynergistic Products:None reportedNone reported

Target Organs: Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal Eyes, Skin, Mucous membranes, Lungs & Blood

tract

Medical Conditions
Aggravated By Exposure:

Skin, Respiratory or Gastrointestinal disorders

Skin or Respiratory disorders

Components: <u>Urea</u> <u>Potassium Nitrate</u>

 Eye Contact:
 No data available
 No data available

 Skin Contact:
 No data available
 No data available

Oral Rat LD₅₀: 8,471 mg/kg 3,750 mg/kg

Dermal Rabbit LD₅o: No data available (Rabbit, Subcutaneous LDLo: 3 gm/kg) No data available

Inhalation Rat LC₅₀: No data available (Rat, Inhalation, Chronic – Multiple No data available

Dose, 288 mg/m³/17 weeks; Toxic effects: Kidney, Ureter & Bladder – Other changes in urine composition; Blood – Other changes; Nutritional and gross metabolic changes.)

Human Data: Human: 22 mg/3 days; Mild No data available

Other Toxicological Data: Rat, Dermal, Chronic – Multiple Dose, 3,024 mg/kg/4 Oral Rabbit LD₅₀: 1,901 mg/kg

weeks; Toxic effects: Liver - Changes in Liver weight;

Endocrine – Changes in Thymus weight; Death.

Carcinogenicity: Oral Rat TD_{Lo}: 821 gm/kg/1 year; Tumorigenic – Neoplastic No data available

by RTECS criteria; Blood – Tumors; Blood – Lymphomax

including Hodgkin's disease.

Teratogenicity: Intraplacental Woman TD_{Lo}: 1,400 mg/kg (female 16 Oral Rat TD_{Lo}: 22 gm/kg (female 1-22 Days pregnant); Effects

Weeks pregnant); Effects on Fertility - Abortion on Fertility - Other measures of fertility

Kidneys & Blood

Mutagenicity: Human DNA Inhibition; lymphocyte: 600 mmol/Liter Bacteria – E Coli Gene Conversion: 5 pph

Synergistic Products: None reported None reported

Target Organs: Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Eyes, Skin, Mucous membranes, Lungs, Gastrointestinal tract,

Central Nervous Systems

Medical Conditions

SECTION 11: TOXICOLOGICAL INFORMATION (Continued from Page 4)

Components: <u>Magnesium Sulfate</u> <u>Ammonium Sulfate</u>

Eye Contact:No data availableNo data availableSkin Contact:No data availableNo data availableOral Rat LDsn:No data available (Oral Mouse LDLo: 5 gm/kg)2,840 mg/kg

Dermal Rabbit LD₅₀: No data available (Subcutaneous Rabbit LD_{Lo}: 1,750 No data available mg/kg (Toxic Effects: Behavioral – Somnolence (general

mg/kg (Toxic Effects: Behavioral – Somnolence (general depressed activity); (Behavioral – Convulsions or effect on

seizure threshold).)

Inhalation Rat LC₅₀: No data available No data available

Human Data: Oral Man TD_{Lo:} 428 mg/kg (Toxic Effects: Behavioral – Oral Man TD_{Lo:} 1,500 mg/kg (Gastrointestinal effects)

Muscle weakness)

Other Toxicological Data: Subcutaneous Rat LD₅₀: 1,200 mg/kg Intraperitoneal Mouse LD₅₀: 610 mg/kg

Carcinogenicity:No data availableNo data availableTeratogenicity:Intravenous Woman TD_{Lo}: 320 mg/kg (39 Weeks pregnant)No data available

Effects on Embryo or Fetus – Other effects

Mutagenicity: Bacteria – E Coli Phage Inhibition: 800 umol/Liter No data available

Synergistic Products: None reported None reported

Target Organs: Eyes, Lungs, Gastrointestinal & Central Nervous Systems Eyes, Skin, Mucous membranes, Lungs & Central Nervous

System

Medical Conditions

Aggravated By Exposure: Respiratory or Gastrointestinal disorders Skin or Respiratory disorders

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

This product is soluble in water and can affect the pH of water. No specific environmental fate data is available.

ENVIRONMENTAL CONSIDERATIONS:

The aquatic toxicity for this product has not been determined.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 CLASSIFICATON: 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)

> **UN Number:** Hazard Class: Packing Group: Not applicable N/A N/A

Primary Label: None Required Subsidiary Label(s): None Required

Primary/Subsidiary Placards: None Required

DOT Reportable Quantity (RQ): **RQ** for Product: Not listed Not applicable

Marine Pollutant: No

2012 North American Emergency Response Guidebook No.: Not applicable

TDG PROPER SHIPPING NAME: NOT RESTRICTED

> Hazard Class: **UN Number:** Packing Group: Not applicable Not applicable N/A

Primary Label: None Required Subsidiary Label(s): None Required

Primary/Subsidiary Placards: None Required

TDG Reportable Quantity (RQ): * Not applicable TDG Schedule XII: Not applicable

Regulated Limit (RL): ** **RL for Product:** Not applicable Not listed

Other Shipping Information: None

Hazard Categories (product):

Planning threshold:

Fire: N

10,000 pounds

SECTION 15: REGULATORY INFORMATION Urea Phosphoric Acid Ammonium Nitrate Potassium Nitrate **COMPONENTS:** Skin, Eyes, Skin, Mucous Eyes, Mucous Skin. Mucous Skin Mucous **OSHA Target Organs:** Fves **Fves** Lungs membranes, membranes, Lungs membranes, Lungs, membranes, Lungs, Gastrointestinal tract Blood Cardiovascular & Central Gastrointestinal tract, Kidneys Nervous Systems & Blood **Carcinogenic Potential:** Regulated by OSHA: No No No No Listed on NTP Report: Nο Nο Nο No Listed by IARC: No No No IARC Group: Not applicable Not applicable Not applicable Not applicable **ACGIH Appendix A:** Not listed Not listed Not listed Not listed A1 Confirmed Human: Not applicable Not applicable Not applicable Not applicable A2 Suspected Human: Not applicable Not applicable Not applicable Not applicable U.S. EPA Requirements Release Reporting **CERCLA** (40 CFR 302) **Listed Substance:** Not listed Not listed Not listed Yes Reportable Quantity: 5,000 pounds Not applicable Not applicable Not applicable Category: Not applicable Not applicable Not applicable RCRA Waste No.: Not listed Not applicable Not applicable Not applicable **Unlisted Substance:** Not applicable Not applicable Not applicable Yes Reportable Quantity: Not applicable Not applicable Not applicable 100 pounds Ignitability Characteristic: Not applicable Not applicable Not applicable Not applicable Not applicable RCRA Waste No.: Not applicable D001 SARA TITLE III Section 302 & 303 (40 CFR 355): **Listed Substance:** Not listed Not listed Not listed Not listed Reportable Quantity: Not applicable Not applicable Not applicable Not applicable Not applicable Planning Threshold: Not applicable Not applicable Not applicable Section 311 & 312 (40 CFR 370): Reactive: N

10,000 pounds

Acute Health: Y

10,000 pounds

Chronic Health: N

10,000 pounds

Sudden Release of Pressure: N

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 (Continued from Page 6)					
COMPONENTS:	Phosphoric Acid	Ammonium Nitrate	<u>Urea</u>	Potassium Nitrate	
Section 313 (40 CFR 372):					
Listed Toxic Chemical:	No (Delisted in June 2000)	Yes (Aqua Ammonia & Nitrate compounds)	Not listed	Yes (Nitrate Compounds)	
Reporting Threshold:	Not applicable	10,000 pounds	Not applicable	10,000 pounds	
U.S. TSCA Status Listed (40 CFR 710):	Yes	Yes	Yes	Yes	
State Regulations					
State of California: Safe Drinking	Water and Toxins Enforcemen	nt Act 1986 (Proposition 6	5).		
Carcinogen:	No	No	No	No	
Reproductive Toxin:	No	No	No	No	
Other Regulations					
State Right To Know Laws:	MA, NJ, PA,CA				
Canadian Regulations					
Product Information:	Yes				
Controlled Product:	Material Causing Other Toxic	r Efforts			
WHMIS Hazard Symbols: WHMIS Class & Division:	D.2B	CENTECTS			
Ingredient Information:					
IDL Substance:	Yes	No	No	No	
DSL or NDSL Lists:	DSL	DSL	DSL	DSL	
COMPONENTS:	Magnesium Sulfate	Ammonium Sulfate			
OSHA Target Organs:	Eyes, Lungs, Gastrointestinal & Central Nervous Systems	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System			
Carcinogenic Potential:					
Regulated by OSHA:	No	No			
Listed on NTP Report:	No	No			
Listed by IARC:	No	No			
IARC Group:	Not applicable	Not applicable			
ACGIH Appendix A:	Not listed	Not listed			
A1 Confirmed Human:	Not applicable	Not applicable			
A2 Suspected Human:	Not applicable	Not applicable			
U.S. EPA Requirements					
Release Reporting					
CERCLA (40 CFR 302) Listed Substance:	Not listed	Not listed			
Reportable Quantity:	Not listed Not applicable	Not applicable			
Category:	Not applicable	Not applicable			
RCRA Waste No.:	Not applicable	Not applicable			
Unlisted Substance:	Not applicable	Not applicable			
Reportable Quantity:	Not applicable	Not applicable			
Characteristic:	Not applicable	Not applicable			
RCRA Waste No.:	Not applicable	Not applicable			
SARA TITLE III					
Section 302 & 303 (40 CFR 355):	N. A.P. A	N. d.P. d. d.			
Listed Substance:	Not listed	Not listed			
Reportable Quantity:	Not applicable	Not applicable			
Planning Threshold:	Not applicable	Not applicable			

SECTION 15: REGULATORY INFORMATION (Continued from Page 7)

COMPONENTS: <u>Magnesium Sulfate</u> <u>Ammonium Sulfate</u>

Section 311 & 312 (40 CFR 370):

Planning threshold: 10,000 pounds 10,000 pounds

Section 313 (40 CFR 372):

Listed Toxic Chemical: Not listed Yes (Aqua Ammonia)
Reporting Threshold: Not applicable 10,000 pounds

U.S. TSCA Status

Listed (40 CFR 710): Yes Yes

State Regulations

State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):

Carcinogen: No No Reproductive Toxin: No No No

Other Regulations

State Right To Know Laws: MA, NJ, PA,CA

Ingredient Information:

IDL Substance: No No DSL or NDSL Lists: DSL DSL

SECTION 16: OTHER INFORMATION

EPA Registration number: Not applicable

Approved Product Uses: Used as part of a plant nutrition program.

Special Notes:

This product is not formulated to contain any material, which the State of California has found to cause cancer and/or birth defects or other reproductive harm. However, as it contains small amounts of mined minerals, this product may contain trace (parts per million) or ultra-trace (parts per billion) of elements known to the State of California to cause cancer, birth defects or other reproductive harm.

Special Instructions:

When making solutions, always add Lucky 7[®] to water, or other solutions, with adequate mixing to ensure a uniform solution. Do not add this product to hypochlorite bleaches, chlorine sanitizers or chlorinated cleaners as this liberates toxic Chlorine gas. Do not add this product to strong alkali or caustic materials and products, as this may liberate a lot of heat and toxic Ammonia gas.

SDS Revision Information: Revised Date: 6/20/2023

SDS Distributed by: Huma, Inc.

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

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