

# HUMA SAFETY DATA SHEET Kleenup™



HMIS			
HEALTH	1		
FLAMMABILITY	0		
PHYSICAL HAZARD	0		
PPE	В		

PRODUCT IDENTIFIER: Kleenup™ Product# 420

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

PRODUCT DESCRIPTION: A clear to hazy 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 clear to hazy, 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 4** 

**SIGNAL WORD: WARNING** 

HAZARD STATEMENT: H302; Harmful if Swallowed

PRECAUTIONARY STATEMENT: P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell, P330; Rinse Mouth P264; Wash hands thoroughly after handling, P270; Do not eat, drink or

smoke when using this product.

# **SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS**

COMPONENT	CAS#	OSHA HAZARD		ACGIH		OSHA	
			<u>WT %</u>	$TLV_{(TWA)}$	STEL	$PEL_{(TWA)}$	STEL
Ammonium Nitrate	6484-52-2	Oxidizer; Eye, Skin & Respiratory Irritant; Blood toxin	21 ± 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.	17 ± 2	None AIHA WEEL: 10 mg/m³	None	None	None
Diammonium Phosphate	7783-28-0	Eye Irritant; Slight to Moderate Skin & Respiratory Irritant; Slightly Toxic by Ingestion: Central Nervous System toxin	2.25 ± 1	None	None	None	None
Ammonium Sulfate	7783-20-2	Eye, Skin & Respiratory Irritant; Human Central Nervous System Effects by Ingestion	1.5 ± 1	None	None	None	None
Cobalt Chloride	7646-79-9	Eye, Skin & Respiratory Irritant; Toxic by Ingestion; Possible Human Carcinogen - IARC	0.11± 0.1	0.02 mg/m³ (as Co) (A3)	None	None	None
				NDA = 1	lo Data Available	N/A = N	ot 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 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 is slightly 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 layage 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, very slightly acidic solution of organic and inorganic compounds with small amounts

of mineral salts. 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, 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 COMBUSTION PRODUCTS: When heated to dryness and decomposition, it emits toxic Ammonia gas, chloride

compounds, carbon monoxide, carbon dioxide, phosphorus oxides, sulfur oxides and nitrogen oxides with trace or ultra-trace toxic oxide amounts, of, iron, manganese, magnesium, potassium, calcium, zinc, cobalt, boron and sodium plus irritating smoke.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

RELEASE TO LAND:

Wearing recommended protective equipment and clothing, dike the spill and pick up the bulk of the liquid using pumps or vacuum truck for disposal in accordance with Federal, State and local regulations. Absorb the remaining liquid using sand, or commercially absorbent material; dispose as Federal. State and local requirements dictate. Flush the

spill area with water; collect the rinsates for disposal as the regulations require.

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 the 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 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. **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 or face shield 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 & EQUIPMENT:

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.

FOOTWEAR: Wear Neoprene, Nitrile, Butyl Rubber boots, 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:	A clear to hazy brown liquid	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:	NA / 8.0%		
Molecular Weight:	Not applicable	% Volatile:	No data available		
Boiling Point:	Greater than 100° C. (212° F.)	Solubility in H₂O:	Complete		
Freezing/Melting Point:	Less than 0° C. (32° F.)	Octanol/Water Partition Coefficient:	No data available		
Specific Gravity:	1.19 @ 20° C.	pH (as is):	5.5 - 6.5		
Density (pounds/gallon):	Approximately 9.93	pH (1% solution):	Approximately 7.0		

# **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, reducing agents, caustics and strong alkali.

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

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

calcium, zinc, cobalt, boron 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 <u>not</u> sensitive to static discharge.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

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

Eye Contact:No data availableNo data availableSkin Contact:No data availableNo data available

**Oral Rat LD**₅o: 2,217 mg/kg 8,471 mg/kg

Dermal Rabbit LD<sub>50</sub>: No data available (Rabbit, Subcutaneous LD<sub>Lo</sub>: 3 gm/kg)

Inhalation Rat LC<sub>50</sub>: No data available No data available (Rat, Inhalation, Chronic – Multiple 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: No data available Dermal Human Standard Draize Test: 22 mg/3 days; Mild

Other Toxicological Data: No data available Rat, Dermal, Chronic – Multiple Dose, 3,024 mg/kg/4 weeks;

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

Changes in Thymus weight; Death.

Carcinogenicity: No data available Oral Rat TD<sub>Lo</sub>: 821 gm/kg/1 year; Tumorigenic – Neoplastic by

RTECS criteria; Blood - Tumors; Blood - Lymphomax

including Hodgkin's disease.

Teratogenicity: No data available Intraplacental Woman TD<sub>Lo</sub>: 1,400 mg/kg (female 16 Weeks

pregnant); Effects on Fertility - Abortion

Mutagenicity: No data available Human DNA Inhibition; lymphocyte: 600 mmol/Liter

Synergistic Products: None reported None reported

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

Central Nervous Systems

No data available

 Medical Conditions
 Skin or Respiratory disorders
 Skin, Respiratory or Cardiac disorders

Components: <u>Diammonium Phosphate</u> <u>Ammonium Sulfate</u>

Eye Contact:No data availableNo data availableSkin Contact:No data availableNo data availableOral Rat LD $_{50}$ :Greater than 1,000 mg/kg2,840 mg/kg

Dermal Rabbit LD₅₀: No data available No data available

No data available

Inhalation Rat LC<sub>50</sub>:

Human Data: No data available Oral Man TD<sub>Lo</sub>: 1,500 mg/kg (Gastrointestinal effects)

Other Toxicological Data: No data available Intraperitoneal Mouse LD<sub>50</sub>: 610 mg/kg

Carcinogenicity:No data availableNo data availableTeratogenicity:No data availableNo data availableMutagenicity:No data availableNo data available

Synergistic Products: None reported None reported

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

System

Medical Conditions
Aggravated By Exposure:

Skin or Respiratory disorders

Skin or Respiratory disorders

# SECTION 11: TOXICOLOGICAL INFORMATION (Continued from Page 4)

Components:Cobalt ChlorideEye Contact:No data availableSkin Contact:No data available

Oral Rat LD<sub>50</sub>: 80 mg/kg

**Dermal Rabbit LD**<sub>50</sub>: No data available (Subcutaneous Rabbit LD<sub>Lo</sub>: 200 mg/kg)

Inhalation Rat LC<sub>50</sub>: No data available

Human Data: Oral Child TD<sub>Lo</sub>: 48 mg/kg; Toxic Effects; Behavioral – Anorexia (human); Endocrine – Thyroid (goiter)

Other Toxicological Data: Dermal Rat LD<sub>Lo</sub>: 2 gm/kg; Toxic Effects: Nutritional and gross metabolic – Weight loss or decreased weight gain

Carcinogenicity: Subcutaneous Rat TD<sub>Lo</sub>: 400 mg/kg/19 Days – I; Toxic Effects: Tumorigenic – Carcinogenic by RTECS criteria; Tumors at

site of application

Teratogenicity: Oral Rat TD<sub>Lo</sub>: 11 mg/kg (female 1-22 Days pregnant); Effects on Fertility – Post-implantation mortality

Mutagenicity: Human DNA Inhibition, HeLa cell: 1 mmol/Liter

Synergistic Products: None reported

Target Organs: Eyes, Skin, Mucous membranes & Lungs

**Medical Conditions** 

Aggravated By Exposure: Skin or Respiratory disorders

# **SECTION 12: ECOLOGICAL INFORMATION**

#### **ENVIRONMENTAL FATE:**

This product is heavier than water, completely soluble in water and will affect the pH of the water. Inorganic phosphates, in contact with soil, sub-surface or surface waters, may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with Calcium or Magnesium. The resultant compounds are insoluble, becoming part of the soil.

#### **ENVIRONMENTAL CONSIDERATIONS:**

The aquatic toxicity for this product is related to the pH of the water. For Rainbow trout, the reported  $LC_{50}$  is about a pH of 4.0 for a 7 day bioassay. Other species may vary a bit from this pH level, but all are susceptible to acidic pH conditions.

# **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 Required Subsidiary Label(s): None Required

Primary/Subsidiary Placards: None Required

DOT Reportable Quantity (RQ): Not Listed RQ for Product: Not Applicable

Marine Pollutant: N/A

2012 North American Emergency Response Guidebook No.: Not Applicable

TDG PROPER SHIPPING NAME: NOT RESTRICTED

Hazard Class: N/A UN Number: N/A Packing Group: 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: N/A

Regulated Limit (RL): \*\* Not Listed RL for Product: N/A

Other Shipping Information: None

<sup>\*</sup> 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						
COMPONENTS:	NENTS: <u>Ammonium Nitrate</u>		Diammonium Phosphate	Ammonium Sulfate		
OSHA Target Organs:	Eyes, Skin, Mucous membranes, Lungs & Blood	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin, Lungs & Central Nervous System	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System		
Carcinogenic Potential:						
Regulated by OSHA:	No No	No No	No	No		
Listed on NTP Report:	No No	No No	No No	No No		
Listed by IARC: 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	Not listed		
Reportable Quantity:	Not applicable	Not applicable	Not applicable	Not applicable		
Category:	Not applicable	Not applicable	Not applicable	Not applicable		
RCRA Waste No.:	Not applicable	Not applicable	Not applicable	Not applicable		
Unlisted Substance:	Not applicable	Not applicable	Not applicable	Not applicable		
Reportable Quantity:	Not applicable	Not applicable	Not applicable	Not applicable		
Characteristic:	Not applicable	Not applicable	Not applicable	Not applicable		
RCRA Waste No.:	Not applicable	Not applicable	Not applicable	Not applicable		
SARA TITLE III						
Section 302 & 303 (40 CFR 355):						
Listed Substance:	Not listed	Not listed	Not listed	Not listed		
Reportable Quantity: Planning Threshold:	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		
Section 311 & 312 (40 CFR 370): Hazard Categories (product): Planning threshold:	Fire: N Sudden Release	e of Pressure: <u>N</u> Reacti	ve: <u>N</u> Acute Health: <u>Y</u> 10,000 pounds	Chronic Health: <u>N</u> 10,000 pounds		
Section 313 (40 CFR 372): Listed Toxic Chemical:	Yes (Aqua Ammonia &	Not listed	Yes (Aqua Ammonia)	Yes (Aqua Ammonia)		
Reporting Threshold:	Nitrate compounds) 10,000 pounds	Not applicable	10,000 pounds	10,000 pounds		
a mag a						
U.S. TSCA Status Listed (40 CFR 710):	Yes	Yes	Yes	Yes		
State Regulations						
State of California: Safe Drinking	Water and Toxins Enforcement	nt Act, 1986 (Proposition 6	5):			
Carcinogen:	No	No	No	No		
Reproductive Toxin:	No	No	No	No		
Other Regulations State Right To Know Laws:	NJ					
Canadian Regulations Product Information: Controlled Product: WHMIS Hazard Symbols: WHMIS Class & Division:	Yes Material Causing Other Toxio D.2B	c Effects				
Ingredient Information: IDL Substance: DSL or NDSL Lists:	No DSL	No DSL	No DSL	No DSL		

# SECTION 15: REGULATORY INFORMATION (Continued from Page 6)

**Cobalt Chloride** COMPONENTS:

Eyes, Skin, Mucous **OSHA Target Organs:** 

membranes & Lungs

Carcinogenic Potential:

Regulated by OSHA: No **Listed on NTP Report:** No Listed by IARC: Yes IARC Group: Group 2B **ACGIH Appendix A:** Yes (A3) A1 Confirmed Human: Not applicable A2 Suspected Human: Not applicable

# **U.S. EPA Requirements**

Release Reporting

**CERCLA** (40 CFR 302)

**Listed Substance:** Not listed Reportable Quantity: Not applicable Category: Not applicable RCRA Waste No.: Not applicable **Unlisted Substance:** Not applicable Not applicable Reportable Quantity: Characteristic: Not applicable RCRA Waste No.: Not applicable

## SARA TITLE III

Section 302 & 303 (40 CFR 355):

Not listed **Listed Substance:** Reportable Quantity: Not applicable Planning Threshold: Not applicable

Section 311 & 312 (40 CFR 370):

Planning threshold: 10,000 pounds

Section 313 (40 CFR 372):

**Listed Toxic Chemical:** Yes (Cobalt compounds) 10,000 pounds Reporting Threshold:

**U.S. TSCA Status** 

Listed (40 CFR 710): Yes

# State Regulations

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

Carcinogen: No Reproductive Toxin: No

Other Regulations

State Right To Know Laws: NJ

# Canadian Regulations

**Product Information:** 

Controlled Product:

**Material Causing Other Toxic Effects** WHMIS Hazard Symbols:

WHMIS Class & Division: D.2A; D.2B

Ingredient Information:

IDL Substance: Yes DSL or NDSL Lists: 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 manufactured, or formulated to contain substances, which the State of California has found to cause cancer and/or birth defects or other reproductive harm. However, as it contains 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:**

Store Kleenup™ in a cool, dry, well-ventilated area away from incompatible materials and products. When making dilutions, always add this product to water, or aqueous solutions, with adequate mixing to ensure a uniform solution. Do not add strong alkali or caustics to this product, as that will liberate toxic Ammonia gas.

**SDS Revision Information:** Revised Date: 8/21/2023

SDS Distributed by: Huma, Inc.

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

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