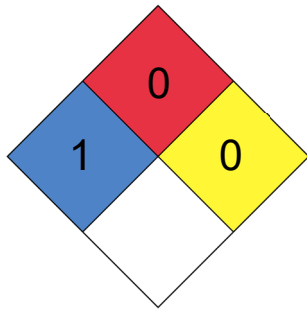




SOLELY MANUFACTURED BY
HUMA

Revision A – 11/11/2024

NFPA



HMIS

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

SAFETY DATA SHEET

Plus 5-3-1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product Name Plus 5-3-1 **Product ID #** 516
Manufacturer's Name Huma
Address: 1331 W Houston Ave. Gilbert, AZ, US, 85233
Emergency Phone Chemtec: (In the USA) 800-424-9300 (International) 703-527-3887
Information Phone # 480-961-1220
Product Use Fertilizer - General landscape / sport turf.

SECTION 2) HAZARDS IDENTIFICATION

Classification Eye Irritation - Category 2B
 Skin Irritation - Category 2
 STOT - Respiratory – Category 3
 Acute aquatic toxicity - Category 1

Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Pictograms



Signal Word Warning

Hazardous Statements - Health

H315 - Causes skin irritation.
H320 - Causes eye irritation.
H335 - May cause respiratory irritation.

Hazardous Statements - Environmental

H400 - Very toxic to aquatic life.
H402 - Harmful to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements – General

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

Precautionary Statements – Prevention

P261 - Avoid breathing dust.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.

Precautionary Statements – Response

P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a doctor, a POISON CENTER if you feel unwell.
P321 - Specific treatment (see Section 4)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.

Precautionary Statements – Storage

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.

Precautionary Statements – Disposal

P501 - Dispose of contents/container in accordance with local/national/international regulations.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
1415-93-6	Humic acid	77 +/- 5
57-13-6	Urea	8 +/- 3
7722-76-1	MAP- Mono-Ammonium phosphate	7 +/- 3
7778-80-5	Potassium Sulfate	3 +/-1
1317-61-9	Iron Oxide	3 +/- 1
1314-13-2	Zinc oxide	0.1 +/- 0.05
1344-43-0	Manganese Oxide	0.1 +/- 0.05
36290-04-7	Alkyl Naphthalene Sodium Sulfonate	1 +/- 0.5

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
Skin Contact	Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	No data available.
Indication of any immediate medical attention and special treatment needed	
If you feel unwell, seek medical advice	

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media	None identified
Specific Hazards in Case of Fire	Not considered flammable but may burn at high temperatures. Product is not explosive. Hazardous reactions will not occur under normal conditions.
Fire-Fighting Procedures	Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection.
Special Protective Actions	None identified


SECTION 6) ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures For Non-Emergency Personnel	Avoid contact with skin, eyes, or clothing. Avoid breathing dust
For Emergency Personnel	Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel. Equip cleanup crew with proper protection. Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.
Environmental Precautions	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Methods and Materials for Containment and Cleaning Up	Contain and collect as any solid. Clear up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

SECTION 7) HANDLING AND STORAGE

Precautions for Safe Handling	Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.
Conditions for Safe Storage, Including Any Incompatibilities	Comply with applicable regulations. Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.
Specific End Use(s)	Fertilizer – General landscape / sport turf.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.	
Personal Protective Equipment:	Protective goggles, Gloves. Protective clothing.	
Materials for Protective Clothing:	Chemically resistant materials and fabrics.	
Hand Protection:	Wear chemically resistant protective gloves.	
Eye Protection:	Chemical goggles or safety glasses.	
Skin and Body Protection:	Wear suitable protective clothing.	
Respiratory Protection:	Use a NOISH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.	
Environmental Exposure Controls:	Do not allow the product to be released into the environment.	
Consumer Exposure Controls:	Do not eat, drink or smoke during use.	

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blackish brown granule	Bulk Density (pounds/ft ³):	N/A
Physical State:	Solid	Vapor Pressure:	Not available
Odor:	None	Vapor Density:	Not available
Molecular Formula:	Mixture	VOC Content:	Not available
Boiling Point:	Not available	Water Solubility:	Not available
Freezing/Melting Point:	Not available	pH (as is):	5.25
Specific Gravity:	Not available	Density (pounds/gallon):	Not available

SECTION 10) STABILITY AND REACTIVITY

Reactivity	Hazardous reactions will not occur under normal conditions.
Chemical Stability	Stable under recommended handling and storage conditions (see Section 7)
Possibility of Hazardous Reactions/Polymerization	Hazardous polymerization will not occur.
Conditions to Avoid	Ignition sources & incompatible materials.
Incompatible Materials	Strong acids. Strong bases. Strong oxidizers.
Hazardous Decomposition Products	Carbon oxides (CO, CO ₂).

SECTION 11) TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified
LD50 and LC50 Data:	Not available
Skin Corrosion/Irritation:	Causes skin irritation
Serious Eye Damage/Irritation:	Causes eye irritation
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Teratogenicity:	Not available
Carcinogenicity:	Not classified
Specific Target Organ Toxicity (Repeated Exposure):	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (Single Exposure):	May cause respiratory irritation
Aspiration Hazard:	Not classified
Symptoms/Injuries After Inhalation:	May cause respiratory irritation
Symptoms/Injuries After Skin Contact:	Causes skin irritation
Symptoms/Injuries After Eye Contact:	Causes eye irritation
Symptoms/Injuries After Ingestion:	Ingestion is likely to be harmful or have adverse effects.

LD50 and LC50 Data:

Urea (57-13-6)	LD50 oral - rat	8471 mg/kg	
	LD50 dermal - rat	>3000 mg/kg	
MAP- Mono-Ammonium Phosphate (7722-76-1)	LD50 oral - rat	>2000 mg/kg	
	LD50 dermal - rat	>5000 mg/kg	
Potassium sulfate (7778-80-5)	LD50 oral - rat	>2000 mg/kg	
	LD50 dermal - rat	>2000 mg/kg	
	LC50 inhalation - rat	1.2 mg/l	
Iron oxide (1317-61-9)	LD50 oral - rat	>5000 mg/kg	
Zinc Oxide (1314-13-2)	LD50 oral - rat	7340 mg/kg	
	LC50 inhalation - mouse	2500 mg/m ³	
Manganese Oxide (1344-43-0)	LD50 oral - rat	>2000 mg/kg	
	LC50 inhalation - rat	>5.35 mg/l	
Polynaphthalene sulphonic acid (36290-04-7)	LD50 Oral - rat	LD50 = 4440 mg/kg	

SECTION 12) ECOLOGICAL INFORMATION

Toxicity	
Persistence and Degradability	Inherently biodegradable
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Other Adverse Effects	Avoid release to the environment

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal	Dispose of waste material in accordance with all local, regional, national, and international regulations.
Ecology – Waste Materials:	Avoid release to the environment.

SECTION 14) TRANSPORT INFORMATION

	U.S. DOT Info	IMDG Info	IATA Info
UN Number	Not Regulated	Not Regulated	Not Regulated
UN Proper Shipping Name	N/A	N/A	N/A
Transport Hazard Class	Not Applicable	Not Applicable	Not Applicable
Packing Group	Not Applicable	Not Applicable	Not Applicable
Hazardous Substance (RQ)	Not Applicable	Not Applicable	Not Applicable
Environmental Hazards	No Data Available	No Data Available	No Data Available
Special Precautions for User	No Data Available	No Data Available	No Data Available
Transport in bulk according to Annex II of MARPOL and the IBC code	No Data Available	No Data Available	No Data Available

SECTION 15) REGULATORY INFORMATION

US Federal Regulations: All components of this product are listed, or excluded from listing, on the U.S. EPA TSCA (Toxic Substances Control Act) inventory

US State Regulations:

1314-13-2	Zinc Oxide	U.S. – Massachusetts – Right to Know List U.S. – New Jersey – Right to Know Hazardous Substance List U.S. – Pennsylvania – RTK (Right to Know) List
1344-43-0	Manganese Oxide	U.S. – New Jersey – Right to Know Hazardous Substance List U.S. – Pennsylvania – RTK (Right to Know) List

CA Prop 65 Warning: this product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.
MAP- Mono-Ammonium Phosphate (7722-76-1)

SECTION 16) OTHER INFORMATION

Version:

Revision Date:
First Edition: November 11, 2024

Disclaimer

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