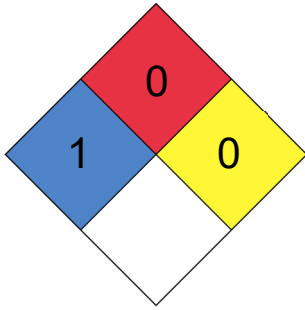




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**HUMA**

Revision A – 10/1/2024

NFPA



HMIS

HEALTH	/ 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

# SAFETY DATA SHEET

## 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** 5-3-1 **Product ID #** 530  
**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

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

### SECTION 4) FIRST-AID MEASURES

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

### SECTION 5) FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use extinguishing media appropriate for surrounding fire.
<b>Unsuitable Extinguishing Media</b>	None identified
<b>Specific Hazards in Case of Fire</b>	Not considered flammable but may burn at high temperatures. Product is not explosive. Hazardous reactions will not occur under normal conditions.
<b>Fire-Fighting Procedures</b>	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.
<b>Special Protective Actions</b>	None identified


### SECTION 6) ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency Procedures For Non-Emergency Personnel</b>	Avoid contact with skin, eyes, or clothing. Avoid breathing dust
<b>For Emergency Personnel</b>	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.
<b>Environmental Precautions</b>	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
<b>Methods and Materials for Containment and Cleaning Up</b>	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

<b>Precautions for Safe Handling</b>	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.
<b>Conditions for Safe Storage, Including Any Incompatibilities</b>	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.
<b>Specific End Use(s)</b>	Fertilizer – General landscape / sport turf.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Appropriate Engineering Controls:</b>	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.	
<b>Personal Protective Equipment:</b>	Protective goggles, Gloves. Protective clothing.	
<b>Materials for Protective Clothing:</b>	Chemically resistant materials and fabrics.	
<b>Hand Protection:</b>	Wear chemically resistant protective gloves.	
<b>Eye Protection:</b>	Chemical goggles or safety glasses.	
<b>Skin and Body Protection:</b>	Wear suitable protective clothing.	
<b>Respiratory Protection:</b>	Use a NOISH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.	
<b>Environmental Exposure Controls:</b>	Do not allow the product to be released into the environment.	
<b>Consumer Exposure Controls:</b>	Do not eat, drink or smoke during use.	

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

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

## SECTION 10) STABILITY AND REACTIVITY

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

## SECTION 11) TOXICOLOGICAL INFORMATION

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

### LD50 and LC50 Data:

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

## SECTION 12) ECOLOGICAL INFORMATION

<b>Toxicity</b>	
<b>Persistence and Degradability</b>	Inherently biodegradable
<b>Bioaccumulative Potential</b>	No data available.
<b>Mobility in Soil</b>	No data available.

## 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
<b>UN Number</b>	Not Regulated	Not Regulated	Not Regulated
<b>UN Proper Shipping Name</b>	N/A	N/A	N/A
<b>Transport Hazard Class</b>	Not Applicable	Not Applicable	Not Applicable
<b>Packing Group</b>	Not Applicable	Not Applicable	Not Applicable
<b>Hazardous Substance (RQ)</b>	Not Applicable	Not Applicable	Not Applicable
<b>Environmental Hazards</b>	No Data Available	No Data Available	No Data Available
<b>Special Precautions for User</b>	No Data Available	No Data Available	No Data Available
<b>Transport in bulk according to Annex II of MARPOL and the IBC code</b>	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: October 1, 2024

**Disclaimer**

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