

Magruder 230611 15-6-12

results due July 15, 2023

Important Note:

Because of the nature of this fertilizer, this sample has not been ground in preparation for distribution. Prepare it as you would a polymer coated fertilizer received in your laboratory.

Guaranteed Analysis

Total Nitrogen (N)	15 %
8.3 % Ammoniacal Nitrogen	
6.7 % Nitrate Nitrogen	
Available Phosphate (P ₂ O ₅)	6 %
Soluble Potassium (K ₂ O)	12 %
Magnesium (Mg)	1.3 %
1.3 % Water soluble Magnesium	
Total Sulfur (S)	6.3 %
6.3 % Combined Sulfur	
Iron (Fe)	0.32 %
Copper (Cu)	0.076 %
Manganese (Mn)	0.13 %
0.13% Water Soluble Manganese	
Molybdenum (Mo)	110 ppm
Zinc (Zn)	0.076 %
0.076% Water Soluble Zinc	

Derived from Polymer Coated: Ammonium Nitrate, Ammonium Phosphate, Sulfate of Potash, Magnesium Sulfate, Copper Sulfate, Iron EDTA, Manganese Sulfate, Sodium Molybdate, and Zinc Sulfate

Also analyze for:

As (ppm), Cd (ppm), Cr (ppm), Co (ppm), Pb (ppm),
Hg (ppm), Ni (ppm), Se (ppm)

The units above are those required for reporting data from this Magruder sample. They may not be the units required on a commercial fertilizer label.

Note: This Magruder Check Sample material is not to be used in the manufacture of products nor applied to any crops or for other fertilizer uses. It is intended for analytical testing purposes only.

SDS for this product can be found at:

<http://www.magruderchecksample.org/SDS/230611.pdf>

SDS for Magruder 230611

1. IDENTIFICATION

Product Name: POLYON® NPK + Micros

Product Type: Solid Granule

Recommended use / restrictions of use: Professional applications of Agricultural fertilizer. No restrictions.

Supplier's Details: Harrell's Coatings Solutions, LLC

5105 New Tampa Hwy

Lakeland, FL 33815

1-800-282-8007

Emergency contact numbers:

For Transportation Emergencies:

Name : Chemtrec

Phone Number : 1-800-424-9300

Customer Number : 10202

For Medical Emergencies:

Name : Rocky Mountain Poison Control Center

Phone Number : 1-800-304-0824

2. HAZARDS IDENTIFICATION

Hazard classification: This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

Eye irritant - Category 2A

Hazard pictograms:



Signal word: Warning

Hazard statements: Cause serious eye irritation

Precautionary statements: Obtain special instructions before use.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Minimize dust generation.

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice if eye irritation persists.

Other hazards: None

Other hazards not contributing to the classification: Spill area may be slippery.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture

Chemical name/component	CAS#	Concentration
Ammonium Nitrate	6484-52-2	< 45%

4. FIRST-AID MEASURES

Description of first aid measures

- Eye Contact --If in eyes: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice if eye irritation persists.
- Skin Contact - If on skin: Wash thoroughly with soap and water. Launder clothing before reuse
- Inhalation -- If inhaled: Remove affected person to fresh air and keep at rest in a position comfortable for breathing. Call 911 if breathing is difficult.
- Ingestion -- If ingested: Rinse mouth. Do not induce vomiting. Get medical attention if affected person feels unwell. Have the product label with you when calling a doctor or going for treatment.

Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Water spray, dry chemical, carbon dioxide, sand

Unsuitable extinguishing media: None

Special hazards arising from the substance or mixture: Material will not burn. However, material undergoes decomposition at elevated temperatures to release toxic and combustible gases.

Advice for firefighters

Firefighting instructions: Material will not burn. Use extinguishing media appropriate for the surrounding materials.

Protection during firefighting: Wear respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Protective equipment: Use protective equipment to prevent contact with skin and eyes plus prevent inhalation of dust if generated.

Emergency procedures: Site specific.

Environmental precautions: Prevent entry to sewers and public surface waters.

Methods and material for containment and cleaning up

Clean up methods: Use mechanical means. Store material in suitable containers for recycle or disposal. Minimize dust generation.

Reference to other sections: See Section 7 for safe handling information.

7. HANDLING AND STORAGE

Precaution for safe handling: Avoid contact with skin and eyes. After handling, wash hands thoroughly with soap and water. Avoid generating and breathing dust. Wash before eating and drinking.

Fire/explosion precautions: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool, and well-ventilated area. Protect from weather.

POLYON® NPK + Micros

Incompatible materials: Strong bases and strong acids.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Dust – inhalable particles	ACGIH	TWA	10 mg/m ³
Dust – respirable particles	ACGIH	TWA	3 mg/m ³

Exposure controls

Appropriate engineering controls: If dust is generated during handling, use adequate ventilation to keep exposure to airborne dust level below the threshold limits.

Hand protection: Wear suitable protective gloves.

Eye protection: Safety glasses with side shields or tight fitting goggles if dust is generated.

Skin and body protection: Wear long sleeved clothing and other suitable clothing to prevent skin exposure.

Respiratory protection: Respiratory protection should be worn when there is potential to exceed the exposure limit requirements or guidelines. A NIOSH approved dust respirator if dust level is above the threshold limit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and properties:

Physical state:	Solid	Flammability:	Not available
Color:	Green	Flash point:	Not available
Odor:	Not available	Explosive limit (upper):	Not applicable
Odor threshold:	Not available	Explosive limit (lower):	Not applicable
Boiling point:	Not available	Auto ignition temp:	Not available
Melting point:	Not available	Decomposition temp:	> 410 °F (> 210°C)
Freezing point:	Not available	Partition coefficient:	Not applicable
Vapor pressure:	Not available	Viscosity, kinematic:	Not available
Vapor density:	Not available	Viscosity, dynamic:	Not available
pH:	Not available	Specific gravity:	Not available
Relative density:	Not available	Solubility in water:	Not available
Evaporation rate:	Not available		

Other information:

Explosive properties: Not explosive Oxidizing properties: Not oxidizing

10. STABILITY AND REACTIVITY

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability: The product is stable under normal ambient conditions.

Possibility of hazardous reactions: None.

Conditions to avoid: No further relevant information available.

Incompatible materials: Strong bases and strong acids.

Hazardous decomposition products: None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Inhalation
Skin contact
Eye contact
Ingestion

Symptoms/injuries after skin contact:	Prolonged contact may cause skin irritation.
Symptoms/injuries after eye contact:	Causes serious eye irritation.
Symptoms/injuries after inhalation:	High concentrations of dust may irritate the throat and respiratory system and cause coughing.
Symptoms/injuries after Ingestion:	
Acute toxicity :	Not classified.
Reproductive toxicity :	No relevant data found.
Specific Target Organ Toxicity-S E:	No relevant data found.
Specific Target Organ Toxicity-R E:	No relevant data found.
Carcinogenicity:	Not classified.

NTP (National Toxicology Program):	Not classified.
IARC (International Agency for Research on Cancer):	Not classified.
ACGIH (American Conference of Governmental Industrial Hygienists):	Not classified.

12. ECOLOGICAL INFORMATION

Toxicity:	No testing data available.
Persistence and degradability:	No data is available on the degradability of this product.
Bioaccumulative potential:	No data available.
Mobility in soil:	Non-persistent when applied using normal agricultural practices.
Other adverse effects :	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste disposal recommendations:	Recycle excess product if at all possible or dispose the product as fertilizer. If contaminated with materials not suitable as use in fertilizer, dispose in an approved waste disposal site or landfill site capable of handling contaminated material.
Waste containers :	Do not use metal waste containers.
Reference to other sections:	See section 8 for exposure control information.

14. TRANSPORT INFORMATION

DOT:	Not regulated as dangerous goods for transport
Classification for AIR transport (IATA/ICAO):	Not regulated for transport
IMDG:	Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product is not known to contain substances identified by the State of California to cause cancer, birth defects or other reproductive harm, at levels which may require a warning under the statute.

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16. OTHER INFORMATION

Date of preparation/issue date: August 31, 2021

Version: 3.0

NFPA ratings: H-1, F-0, I-0, SH-None

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