

1. IDENTIFICATION

Product Name: POLYON® NPK (N greater than 15)

Product Type: Solid Granule

Recommended use / restrictions of use: Fertilizer. No known restrictions.

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

5105 New Tampa Hwy

Lakeland, FL 33815

1-800-282-8007

Emergency contact number

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

Physical hazard; Not classified

Health hazards Not classified

OSHA defined hazards Not classified

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: The mixture does not meet the criteria for classification.

Precautionary statements:

Prevention: Observe good industrial hygiene practices.

Response: Wash hands after handling.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNO): None known.

Supplemental information: Not applicable.

SAFETY DATA SHEET

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name/component	CAS#	Concentration %
Ammonium Nitrate	6484-52-2	40 - 60
Potassium Sulfate	7778-80-5	20-30
Polymer Coating	Mixture	4 - 18
Ammonium Dihydrogenorthophosphate	7722-76-1	5 -10
Diammonium Phosphate	7783-28-0	<5
Non-Hazardous Ingredients	Proprietary	< 4

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier.

4. FIRST-AID MEASURES

Inhalation: Move to fresh air Get medical attention if any discomfort continues.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Get medical attention if any discomfort continues.

Most important symptoms/effects, acute and delayed: Eye contact Symptoms can include irritation, redness, scratching of the cornea, and tearing.
Skin contact: Mild skin irritation.
Dust may irritate throat and respiratory system and cause coughing.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water fog. Water spray. Carbon dioxide (CO₂). Foam.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Fire may produce irritating, corrosive and/or toxic gases. Heating may cause the release of ammonia vapors.

Special protective equipment and precautions for firefighters: Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions: Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

SAFETY DATA SHEET

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Avoid inhalation of dust and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. Use personal protection recommended in Section 8 of the SDS.
Methods and material for containment and cleaning up:	Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. After removal flush contaminated area thoroughly with water. Never return spills to original containers for re-use.
Environmental precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers or watercourses.

7. HANDLING AND STORAGE

Precaution for safe handling:	Avoid generation and spreading of dust Avoid inhalation of dust and. contact with skin and eyes. Use only with adequate ventilation. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational exposure limits:

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

Biological limit values:	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:	Provide adequate general and local exhaust ventilation.
Individual protection measures, such as personal protective equipment:	
Eye/face protection:	Wear approved safety glasses or goggles where there is danger of eye contact.
Skin protection:	
Hand protection:	For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.
Skin protection:	
Other:	Normal work: clothing (long sleeved shirts and long pants) is recommended.
Respiratory protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134 and ANSI Z88.2.
Thermal hazards:	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and

SAFETY DATA SHEET

safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and properties:

Physical state:	Solid	Flammability:	Not available
Color:	Green	Flash point:	Not applicable
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:	Not available
Freezing point:	Not available	Partition coefficient:	Not applicable
Vapor pressure:	Not available	Viscosity, kinematic:	Not applicable
Vapor density:	Not applicable	Viscosity, dynamic:	Not applicable
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
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10. STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability:	The product is stable under normal conditions of use, storage and transport.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Elevated temperatures.
Incompatible materials:	Strong acids. Strong oxidizing agents. Reducing agents. Combustible material.
Hazardous decomposition products:	Ammonia. Nitrogen oxides (NO _x). Potassium oxides. Sulfur oxides (SO _x).

11. TOXICOLOGICAL INFORMATION

Inhalation	Dust may irritate respiratory system.
Skin contact	May cause irritation through mechanical abrasion.
Eye contact	May cause irritation through mechanical abrasion.
Ingestion	Ingestion may cause irritation and malaise.
Symptoms related to the physical, chemical and toxicological characteristics:	Eye contact: Symptoms can include irritation, redness, scratching of the cornea, and tearing. Skin contact: Mild skin irritation. Dust may irritate throat and respiratory system and cause coughing.

Information on toxicological effects:

Acute toxicity:	May cause discomfort if swallowed.	
Components	Species	Test Results
Ammonium Dihydrogenorthophosphate (CAS 7722-76-1)		
Dermal LD50	Rat	> 5000 mg/kg
Inhalation LD50	Rat	> 5000 mg/m³
Oral LD50	Rat	> 2000 mg/kg
Ammonium Nitrate (CAS 6484-52-2)		

SAFETY DATA SHEET

Inhalation LC50	Rat	> 88.6 mg/l, 4 hours
Oral LD50	Rat	4500 mg/kg
Diammonium Phosphate (CAS 7783-28-0)		
Dermal LD50	Sprague-Dawley Rat	> 5000 mg/kg
Inhalation LC50	Rat	> 5000 mg/m ³ , 4 hours
Oral LD50	Sprague-Dawley Rat	> 2000 mg/kg
Potassium Sulfate (CAS 7778-80-5)		
Dermal LD50	Sprague-Dawley Rat	> 2000 mg/day, 24 hours
Inhalation LC50	Rat	3.6 mg/m ³ , 4 hours
Oral LD50	Sprague-Dawley Rat	> 2000 mg/kg
Skin corrosion/irritation:	May cause irritation through mechanical abrasion.	
Serious eye damage/eye irritation:	Dust may irritate the eyes.	
Respiratory or skin sensitization:		
Respiratory sensitization:	Based on available data, the classification criteria are not met.	
Skin sensitization:	Not a skin sensitizer.	
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.	
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not listed	
Reproductive toxicity:	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - single exposure:	Inhalation of dusts may cause respiratory irritation.	
Specific target organ toxicity - repeated exposure:	Based on available data, the classification criteria are not met.	
Aspiration hazard:	Not available.	
Chronic effects:	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Prolonged exposure may cause chronic effects.	
Further information:	No other specific acute or chronic health impact noted.	

12. ECOLOGICAL INFORMATION

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species		Test Results
Diammonium Phosphate (CAS 7783-28-0)				
	Aquatic			
	Algae	EC50	Selenastrum capricornutum	>97.1 mg/l, 96 hours
	Crustacea	LC50	Daphnia	1790 mg/l, 96 hours
	Fish	LC50	Carp, hawk fish (Cirrhinus mrigala)	1700 mg/l, 96 hours
Potassium Sulfate (CAS 7778-80-5)				
	Aquatic			
	Algae	EC50	Chiarella vulgaris	2700 mg/l, 18 days
	Crustacea	LC50	Daphnia magna	720 mg/l, 48 hours
	Fish	LC50	Lepomis macrochirus)	2500 mg/l, 96 hours
	Fish	LC50	Pimephales promelas	680 mg/l, 96 hours
Persistence and degradability:	No data is available on the degradability of this product.			
Bioaccumulative potential:	Not expected to bioconcentrate or bioaccumulate.			

SAFETY DATA SHEET

Mobility in soil: This product is water soluble and may disperse in soil.
Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:
Disposal instructions: Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products: Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT: Not regulated as dangerous goods.
Classification for AIR transport (IATA/ICAO): Not regulated as dangerous goods.
IMDG: Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

15. REGULATORY INFORMATION

US federal regulations: This product is not hazardous according to OSHA 29 CFR191 0.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpart. D) Not regulated
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed
CERCLA Hazardous Substance List (40 CFR 302.4) Not listed
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance Not listed
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting) Ammonium Dihydrogenorthophosphate (CAS 7722-76-1)
Ammonium Nitrate (CAS 6484-52-2)
Diammonium Phosphate (CAS 7783-28-0)
Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated
Safe Drinking Water Act (SDWA) Not regulated
US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
US. Massachusetts RTK - Substance List Ammonium Nitrate (CAS 6484-52-2)
US. New Jersey Worker and Community Right-to-Know Act Ammonium Nitrate (CAS 6484-52-2)
US. Pennsylvania Worker and Community Right-to-Know Law Ammonium Nitrate (CAS 6484-52-2)

SAFETY DATA SHEET

US. Rhode Island RTK

Ammonium Nitrate (CAS 6484-52-2)

California Proposition 65

Not listed

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no) *
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. OTHER INFORMATION

Date of preparation/issue date: November 06, 2020

Version: 1.0

Further information: HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings: Health: 2
Flammability: 1
Physical hazard: 0

NFPA ratings: Health hazard: 2
Flammability: 1
Reactivity: 0
Special hazards: none

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