



SAFETY DATA SHEET

1. Identification

Product identifier: Purkote NPK 19-6-13

Other means of identification Product code:

Purkote NPK 19-6-13

Synonyms:

Polymer Coated NPK 21-7-14, Polymer Coated 19-6-13 NPK, Polymer Coated 19-6-12 NPK, Polymer Coated 18-6-12 NPK, Polymer Coated 17-6-12 NPK, Polymer Coated 16-5-11 NPK

Recommended use: Fertilizer

Recommended restrictions: None Known

Manufacturer/Importer/Supplier/Distributor information Manufacturer/Supplier:

Pursell Agri-Tech LLC.

501 East 3rd Street

Sylacauga, AL 35150

Emergency:

CHEMTREC

USA/Canada – 1-800-424-9300

2. Hazard(s) identification

Physical hazards	Not Classified
Health hazards	Not Classified
OSHA defined hazards	Not Classified
<u>Label elements</u>	
Hazard symbol	None
Signal word	None
Hazard statement	The mixture does not meet criteria for classification
<u>Precautionary statement</u>	
Prevention	Observe good industrial hygiene practices
Response	Wash hands after handling
Storage	Not Applicable
Disposal	Dispose of waste and residues in accordance with local authority requirements
Hazard(s) not otherwise classified (HNOC)	Product forms slippery surface when combined with water

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Supplemental information	Not applicable
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3. Composition/information on ingredients

Mixtures

Chemical name	CAS Number	%
Nitric acid ammonium salt	6484-52-2	>=45 - 50
Nitric acid potassium	7757-79-1	>=10-12.5

4. First-aid measures

Inhalation	Move to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Symptoms: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	Wash contacted areas with soap & water. Get medical attention if irritation develops or persists. Symptoms: No known significant effects or critical hazards.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing. Symptoms: No known significant effects or critical hazards.
Ingestion	Rinse mouth thoroughly with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe. Symptoms: No known significant effects or critical hazards.
Immediate or 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 – use fire-extinguishing media appropriate for surrounding materials. Flooding quantities of water may be used for extinction.

Unsuitable extinguishing media – Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.

Specific hazards arising from the chemical – No specific fire or explosion hazards. Decomposition products may include the following materials: nitrogen oxides, sulfur oxides, phosphorus oxides, metal oxides. Avoid breathing dusts, vapors or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

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 and full protective clothing must be worn in case of fire. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Firefighting equipment/instructions – Self-contained breathing apparatus with full face-piece operated in positive pressure mode, and full protective clothing must be worn in case of fire.

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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 materials for containment and cleaning up:	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Avoid dust formation.
Small Spill:	Sweep up or vacuum up spillage and collect in suitable container and properly label for disposal. Dispose of via a licensed waste disposal contractor.
Lard Spill:	Prevent entry into sewers, water courses, basements, or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Environmental precautions	Never return spills to original containers for re-use. 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

Precautions for safe handling	Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for addition information and personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled container. Use appropriate containment to avoid environmental contamination. Keep away from: organic materials, oil and grease.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name:	Exposure limits:
Calcium fluoride (CaF ₂)	OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 2.5 mg/m ³ (Calculated as F) OSHA PEL Z2 (1993-06-30) PEL: Permissible Exposure Level 2.5 mg/m ³ Form: Dust OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 2.5 mg/m ³ (Calculated as F) ACGIH TLV (1994-09-01) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 2.5 mg/m ³ (Calculated as F)

Appropriate engineering controls - Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

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Environmental Exposure controls – Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume, scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures, such as personal protective equipment:

Eye/face protection – Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts.

Skin protection:

Hand protection - Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

Body protection – Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Other - Normal work clothing (long sleeved shirts and long pants) is recommended. Proper footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

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 practice.

9. Physical and chemical properties

Appearance:	Appearance
Physical state	Solid
Form	Granular Solid
Color	Beige. Gray. White coated with purple, pink, or orange polymer
Odor	Odorless
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Decomposes: > 160 °C (320 °F)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available
Flammability limit - upper (%)	Not available
Vapor pressure	Not available
Vapor density	Not available

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Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	> 160 °C (320 °F)
Viscosity	Not available
Other information:	Not available
Explosive properties	Not available
Oxidizing properties	

10. Stability and reactivity

Reactivity – No Specific test data related to reactivity available for this product or its ingredients

Chemical stability – The product is stable

Possibility of hazardous reactions – Under normal conditions of storages and use, hazardous reaction will not occur

Conditions to avoid – Avoid contamination by any source including metals, dust, and organic materials

Incompatible materials – alkalis, combustible materials, reducing materials, organic materials, acids

Hazardous decomposition products – Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. Toxicological information

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Nitric acid ammonium salt (CAS 6484-52-2) Acute Oral LD50	Rat	2,950 mg/kg (IUCLID 5) OECD 401
Derma LD50		>5,000 mg/kg (IUCLID 5) OECD 402
Potential Chronic Health Effects	Rat	
Nitric acid ammonium salt (CAS 6484-52-2) Chronic Oral NOAEL	28 days	256 mg/kg (IUCLID 5) OECD 422
Nitric acid ammonium salt	Rat 2 weeks 5 hour per day	>185 mg/kg (IUCLID 5) OECD 412

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Skin corrosion/irritation: Non-irritating
 Serious eye damage/eye: Non-irritating
 Respiratory or skin sensitization: Non-irritating
 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 1910.1001-1050) - Not listed.

Reproductive toxicity - Based on available data, the classification criteria are not met.
 Specific target organ toxicity (single exposure) - Based on available data, the classification criteria are not met.
 Specific target organ toxicity (repeated exposure) - Based on available data, the classification criteria are not met.
 Aspiration hazard - Not an aspiration hazard.
 Chronic effects - Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
 Further information - No other specific acute or chronic health impact noted.

Conclusion/Summary: There is inadequate evidence in humans and in animals for the carcinogenicity of nitrate in food. Nitrate can be reduced to form nitrite and under acidic gastric condition nitrite may react to generate N-nitroso compounds (endogenous nitrosation). Under conditions that result in endogenous nitrosation ingested nitrate is classified IARC Group 2A. The product is not to be ingested.

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
Nitric acid ammonium salt 6484-52-2		
Acute LC50	Fish – Labeo boga 48 hours	447 mg/l Fresh water (IUCLID 5)
Acute EC50	Aquatic invertebrates-Daphnia 48 hours	490 mg/l Fresh water (IUCLID 5)
Acute EC50	Aquatic plants-Heterosigma akashiwo 10 days	1,700 mg/l Salt water (IUCLID 5)

Persistence and degradability - No data available

Bioaccumulative potential - No data available

Nitric acid ammonium salt (CAS 6484-52-2)

Mobility in soil – Not available

Other adverse effects – No known significant effects or critical hazards

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13. Disposal considerations

Disposal instructions - Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

Hazardous waste code - Not regulated.

Methods of disposal – The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

A NPK fertilizer NOT liable to self-sustaining exothermic decomposition according to S.1 trough test and defined in the recommendation on the Transport of Dangerous Goods, Manual of Tests and Criteria, part III, section 38.

15. Regulatory information

US federal regulations - This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. 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

Delayed (Chronic) Health hazard

SARA 313 (TRI reporting)

Form R: Reporting requirements – Nitric acid ammonium 6484-52-2 Concentration: 35-65

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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.

Food and Drug Administration (FDA)

Not regulated.

Total food additive Direct food additive GRAS food additive

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

International Inventories Country(s) or region

United States & Puerto Rico

Inventory name

Toxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)*

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, including date of preparation or last revision

Issue date: 13-Sept-18

Revision date: -

Version # 01

Further information - HMIS® is a registered trade and service mark of the NPCA. A HMIS® Health rating including an

* indicates a chronic hazard.

HMIS® ratings NFPA ratings

Health: 1

Flammability: 0

Physical hazard: 0

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List of abbreviations

References:

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

ECHA CHEM

EPA: Acquire database

HSDB® - Hazardous Substances Data Bank RTECS

Disclaimer

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet (SDS) and was prepared pursuant to Government regulation(s) that identify specific types of information to be provided. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of this (M)SDS.