

Report 20-Apr-15 Date

Page 1 of 4

Identification

Product Name: Nucleus Ortho-Phos NPK Fe 6-21-2

Synonyms: None

Product Use : Ammonium Phosphate Solution Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number: CHEMTREC:800-424-9300

Hazard Identification

Signal Word: Warning (no symbol)

Skin Irritation: Prolonged skin contact may cause irritation and possible rash.

Eye Irritation: May cause irritation with contact. Prolonged exposure may cause severe

irritation.

Acute Toxicity Oral : No information found Acute Toxicity Dermal : No information found

Hazard Categories: Eye irritation - 2B; Skin irritation - 3; Oral/Dermal/Inhalation Toxicity -

5/5/5

Hazard Statement: May be harmful if swallowed

May be harmful in contact with skin

Causes eve irritation Causes mild skin irritation May be harmful if inhaled

Composition / Information on Ingredients

Component

Blend of plant nutrients derived from Ammonium Phosphate, Potassium Hydroxide and Iron EDDHA. **GUARANTEED ANALYSIS:** Total Nitrogen (N): 6.00%

Available Phosphate (P2O5): 21.00%

Soluble Potash (K2O): 2.00%

CAS Number Proprietary

Weight % 100.00

First Aid Measures

Eye: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.

Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance,

then give artificial respiration, preferably mouth-to-mouth, if possible. Call a

poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have

person sip a glass of water if able to swallow. Do not induce vomiting. Do not

give anything by mouth if unconscious.

Indication of Immediate Medical: Treat symptomatically.

Attention and Special Treatment

Needed



Report Date 20-Apr-15

Page 2 of 4

Extinguishing Media: This is not a flammable liquid. Use extinguishing media suitable for underlying

cause of fire.

Specific Hazards Arising from the : Ammonia or other toxic fumes may be evolved under fire conditions.

Chemical

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Avoid

exposure to smoke and fumes. Contain any runoff.

6. Accidental Release Measures

Personal Precautions: Avoid contact with skin and eyes. Keep unprotected and unnecessary personnel

away from spill area.

Protective Equipment : Rubber or neoprene impervious gloves, splashproof goggles or faceshield,

impervious apron and footwear. Eyewash and emergency shower should be

available in work area.

Emergency Procedures : Dike spill area to prevent spread and runoff into lakes, ponds, drains, sewers

and waterways.

Methods and Materials for : Pump up spilled material and reuse, if uncontaminated. If contaminated, collect

Containment and Cleanup and place in suitable containers for disposal.

7. Handling and Storage

Precautions for Safe Handling: Keep locked up and out of reach of children. Do not store with food, feed or

other material to be used or consumed by humans or animals. Do not

contaminate water supplies, lakes, streams, ponds or drains. Do not allow water

to be introduced into the contents of this container.

Conditions for Safe Storage : Store in original container only. Keep container tightly closed. Do not store near

heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

TLV/PEL : No information found

Appropriate Engineering Controls: General and/or local exhaust should be sufficient.

Personal Protective Equipment: Rubber or neoprene impervious gloves, splashproof goggles or faceshield,

impervious apron and footwear. Eyewash and emergency shower should be

available in work area.

9. Physical and Chemical Properties

Odor/Appearance: Clear dark reddish brown liquid.

Flash Point, °F : Not flammable
Boiling Point, °F : >212 Degrees F.

Melting Point(Freezing point), °C : <32 Degrees F.

Vapor Pressure, mm Hg @ 20 °C : Not determined

Vapor Density: Not determined

Solubility in Water : Soluble

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.285-1.305 Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

pH : 6.1-7.2



Report 20-Apr-15

Page 3 of 4

Flammable Limits (approximate : Not applicable volume % in air)

Auto-ignition Temperature : Not applicable Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability : Stable

Hazardous Decomposition : May release ammonia, phosphorous oxides and other toxic fumes under fire

Products conditions.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid contact with strong oxidizing agents.

Incompatible Materials : Strong oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No information found. Ingestion of large amounts may cause nausea, vomiting,

stomach pains/cramps.

Acute Toxicity (Dermal LD50) : No information found

Acute Toxicity Inhalation LC50 : No information found. Inhalation of spray mist may cause irritation of the upper

respiratory tract.

Likely Routes of Exposure : Eyes, skin, inhalation

Skin Irritation: Prolonged skin contact may cause irritation and possible rash.

Eye Irritation: May cause irritation to the eyes with contact. Prolonged exposure may cause

severe irritation.

Skin Sensitization : Not listed as a skin sensitizer.

Carcinogenic : Not listed by IARC, NTP or OSHA.

Chronic Effects: No information found **Other Hazards**: None currently known.

12. Ecological Information

Ecotoxicity: No information found

Persistence and Degradability : No information found Bioaccumulative Potential : No information found Mobility in Soil : No information found

Other Adverse Effects: No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local

procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name: Not regulated by DOT, IATA or IMDG.

Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None

Environmental Hazards : No information found



Report Date 20-Apr-15

Page 4 of 4

Transport in Bulk : No information found

Special Precautions for : None

Transportation

Freight Classification: Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item

68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection :

Association Rating

Health: 1 Fire: 0 Reactivity: 0

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard : Classification (Yes/No)

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of N
Pressure:

Fire: N Reactive: N

16. Other Information

Data of Preparation/Revision: 20-April-2015