

Report Date 11-Jun-15

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1. Identification

Product Name: Nucleus ORTHO-PHOS 8-24-0

Synonyms: None

Product Use : Inorganic Fertilizers

Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number: CHEMTREC:800-424-9300

2. Hazard Identification

Signal Word: Warning (no symbol)

Skin Irritation: Prolonged skin contact may cause irritation.

Eye Irritation : May cause irritation to the eyes with contact. Severe irritation may occur

with prolonged contact.

Acute Toxicity Oral : No LD50 available. **Acute Toxicity Dermal** : No LD50 available.

Hazard Categories: Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-2B/3

Hazard Statement : May be harmful if swallowed

May be harmful in contact with skin

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

3. Composition / Information on Ingredients

Component
Plant nutrients derived from Ammonium
Phosphate, Ammonium Alkanoates and
Iron EDTA.
GUARANTEED ANALYSIS:
Total Nitrogen (N): 8.00%
8.00% Ammoniacal Nitrogen
Available Phosphate (P2O5): 24.00%
Iron (Fe): 0.10%

0.10% Chelated Iron (Fe)

CAS Number Weight % Proprietary 100.00

4. 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. Rinse

mouth with water. Do not induce vomiting. Do not give anything by mouth if

unconscious.

Indication of Immediate Medical

I : In the event of an adverse response, treatment should be directed toward

Attention and Special Treatment control of the symptoms.

Needed



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5. Fire Fighting Measures

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 : Keep unprotected and unnecessary personnel out of spill area.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Respiratory protection not normally needed. 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 contaminate water, food or

feed by storage, handling or disposal. Keep container tightly closed. Do not

allow water to be introduced into the contents of the container.

Conditions for Safe Storage : Store in original container only. 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 TLV or PEL established for mixture.

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

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Respiratory protection not normally needed. Eyewash and emergency

shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance: Clear, bright yellow liquid with ammonia odor.

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 : 1.267-1.297 Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

pH : 6.1 to 7.5



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Flammable Limits (approximate : Not flammable 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**: Avoid contact with strong oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. May be harmful if swallowed.

Acute Toxicity (Dermal LD50) : No LD50 available. May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : No LC50 available. May be harmful if inhaled.

Likely Routes of Exposure : Eyes, skin

Skin Irritation : Causes mild skin irritation.

Eye Irritation : Causes eye 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

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 or IATA. Consult IMDG for applicability.

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

Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for : No information found

Transportation



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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: 11-June-2015