

Report 27-Feb-15

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1. Identification

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

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

2. Hazard Identification

Signal Word: Warning

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 : Causes eye irritation

Causes mild skin irritation

CAS Number

Proprietary

Maybe harmful if swallowed, in contact with skin or if inhaled

Weight %

100.00

3. Composition / Information on Ingredients

Component

Blend of plant nutrients derived from Ammonium Phosphate and Iron EDTA.

Total Nitrogen (N): 8.00% (Ammoniacal Nitrogen - 8.00%)

Available Phosphate (P2O5): 24.00%

Iron (Fe): 0.10% (Chelated Iron, the chelating agent is

EDTA - Ethylenediaminetetraacetic acid.

4. First Aid Measures

Eye: Flush eyes gently and thoroughly for at least 15 minutes with clean water,

occasionally lifting the upper and lower eyelids. Seek medical attention.

Skin: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water. If redness or rash develops and persists, seek medical attention.

Inhalation: Move to fresh air immediately. Seek medical attention if needed.

Ingestion: Seek medical attention immediately. Drink 1 or 2 glasses of water to dilute, then

induce vomiting. Do not give anything by mouth or induce vomiting if

unconscious.

Indication of Immediate Medical: Treat symptomatically.

Attention and Special Treatment

Needed

5. Fire Fighting Measures

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

cause of fire.



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Chemical

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

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

exposure to smoke and fumes. Contain any runoff.

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.

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

and waterways.

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

and place in suitable containers for disposal. **Containment and Cleanup**

Handling and Storage

Precautions for Safe Handling : Keep 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.

Conditions for Safe Storage: Keep container tightly closed. May be stored in unheated area by protect from

freezing.

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.

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 : 100%

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.267-1.297 g/ml Evaporation Rate(Butyl Acetate = : Not determined

Octanol/Water Partition : No information found

Coefficient

pH: 6.1-7.5

Flammable Limits (approximate : Not applicable

volume % in air)

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



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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 Acute Toxicity (Dermal LD50) : No information found Acute Toxicity Inhalation LC50 : No information found

Likely Routes of Exposure : Eyes, skin

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

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 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)



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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: 27-February-2015