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#### 1. Identification

Product Name	: Nucleus O-PHOS NPK 0.1 Zn
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

	<ul> <li>Warning</li> <li>Prolonged skin contact may cause irritation and possible rash.</li> <li>May cause irritation with contact. Prolonged exposure may cause severe</li> </ul>
Acute Toxicity Oral Acute Toxicity Dermal	irritation. : No information found : 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 Maybe harmful if swallowed, in contact with skin or if inhaled

#### 3. Composition / Information on Ingredients **CAS Number** Weight % Component Blend of plant nutrients derived from 100.00 Proprietary Diammonium Phosphate, Monoammonium Phosphate, Potassium Hydroxide, Ammonium Alkanoates, and Zinc EDTA. GUARANTEED ANALYSIS: Total Nitrogen (N): 7.00% Available Phosphate (P2O5): 21.00% Soluble Potash (K2O): 2.0% Zinc (Zn): 0.10% 4. First Aid Measures



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Extinguishing Media	: This is not a flammable liquid. Use extinguishing media suitable for underlying cause of fire.
Specific Hazards Arising from the Chemical	: 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.

6.	Accidental Release Measure	
	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 Containment and Cleanup	: Pump up spilled material and reuse, if uncontaminated. If contaminated, collect and place in suitable containers for disposal.

7. 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.

## 8. Exposure Controls / Personal Protection

Appropriate Engineering Controls	<ul> <li>No information found</li> <li>General and/or local exhaust should be sufficient.</li> <li>Rubber or neoprene impervious gloves, splashproof goggles or faceshield, impervious apron and footwear. Eyewash and emergency shower should be</li> </ul>
	available in work area.

## 9. Physical and Chemical Properties

Flash Point, <sup>o</sup> F	<ul><li>: Clear very pale yellow liquid with ammonia odor.</li><li>: Not flammable</li></ul>
	: >212 Degrees F.
Melting Point(Freezing point), °C	
Vapor Pressure, mm Hg @ 20 ºC	: Not determined
Vapor Density	: Not determined
Solubility in Water	: Soluble
Molecular Formula	: Not applicable, formulated mixture.
Density, g/mL @ 25 ºC	: 1.257-1.277
Evaporation Rate(Butyl Acetate =	: Not determined
1)	
Octanol/Water Partition	: No information found
Coefficient	
pH	: 6.1-7.3
Flammable Limits (approximate	: Not applicable
volume % in air)	
Auto-ignition Temperature	: Not applicable



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Decomposition temperature : No information found

## 10. Stability and Reactivity

,	: No information found
Chemical Stability	: Stable
	: 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

	<ul> <li>No information found</li> <li>No information found</li> <li>Eyes, skin</li> <li>Prolonged skin contact may cause irritation and possible rash.</li> <li>May cause irritation to the eyes with contact. Prolonged exposure may cause</li> </ul>
Carcinogenic Chronic Effects	severe irritation. : Not listed as a skin sensitizer. : Not listed by IARC, NTP or OSHA. : No information found : None currently known.

## 12. Ecological Information

Ecotoxicity	: No information found
Persistence and Degradability	: No information found
<b>Bioaccumulative Potential</b>	: 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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National Fire Protection						
Association Rating					Desethilter 0	
	Health:		Fire: 0		Reactivity: 0	<b></b> .
		Rating Level	: (4-Extreme,	3-High,	2-Moderate, 1-Slight,	0-Minimu
S.A.R.A Title III Hazard						
Classification (Yes/No)						
, , , , , , , , , , , , , , , , , , ,	Immediate( Acute) Heal	th: Y				
	Delayed (Chronic) Heal					
	Sudden Release					
	Pressu					
	FI	re: N				
	Reactiv	ve: N				

## 16. Other Information

Data of Preparation/Revision : 27-February-2015