

Report 24-Mar-15

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1. Identification

Product Name	: NUCLEUS HYPERLINK HP 8-24-4
Synonyms	: None
Product Use	: Nutritional
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

Skin Irritation Eye Irritation Acute Toxicity Oral	 Warning (no symbol required) May cause skin irritation with prolonged or repeated contact. May cause eye irritation after direct contact with liquid. No information found No hazard anticipated due to absorption.
Hazard Categories	: Eye Irritation - 2B; Skin Irritation - 3; Oral/Inhalation Toxicity - 5/5
Hazard Statement	: May be harmful if swallowed Causes eye irritation Causes mild skin irritation May be harmful if inhaled

3. Composition / Information on Ingred	ients		
Component Blend of plant nutrients derived from urea, phosphoric acid, potassium hydroxide and ammonium polyphosphate. GUARANTEED ANALYSIS: Total Nitrogen (N): 8.00% Available Phosphate (P2O5): 24.00 Soluble Potash (K2O): 4.00%	CAS Number Proprietary	Weight % 100.00	

4. First Aid Measures

Еуе	: Immediately flush eyes with water, continuing for at least 15 minutes. If irritation develops, get medical attention.
Skin	: Remove contaminated clothing. Wash affected area with soap and water. Get medical attention if irritation develops or persists.
Inhalation	: Move to fresh air. If irritation persists, seek medical attention.
Ingestion	: Give a large amount of water to drink. Get medical attention. Do not induce vomiting unless instructed to do so by a doctor.
Indication of Immediate Medical Attention and Special Treatment Needed	: Treat symptomatically.
Needed	

5. Fire Fighting Measures

Extinguishing Media	: Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
Specific Hazards Arising from the Chemical	: May produce oxides of nitrogen, oxides of phosphorus and ammonia.



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Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Prevent runoff of firefighting water.

6. Accidental Release Measu	res
Personal Precautions	: Keep unprotected and unnecessary personnel out of spill area.
Protective Equipment	: Splashproof goggles or face shield, impervious apron and footwear. Eyewash station and emergency shower should be available in work area. No respiratory protection required.
Emergency Procedures	: Contain spilled product by diking to prevent runoff to water supplies, lakes, streams or ponds.
Methods and Materials for Containment and Cleanup	: If uncontaminated, collect and use as intended. If contaminated, collect and place in suitable containers for proper disposal.

7.	Handling	and Storage

Precautions for Safe Handling	: Keep out of reach of children. Do not contaminate water supplies, lakes, streams, ponds or drains with this material. Keep packages tightly closed and do not allow water to be introduced into contents.
Conditions for Safe Storage	: Do not store with food, feed or other material to be used or consumed by humans or animals. Do not store near heat or open flame. Store in original containers only. This product may freeze at temperatures below 32 Degrees F. Thawing occurs readily at temperatures above 32 Degrees F.

8.	Exposure	Controls /	Personal	Protection
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TLV/PEL	: No TLV or PEL established for this mixture.
Appropriate Engineering Controls	: Good general ventilation should be sufficient.
Personal Protective Equipment	: Splashproof goggles or face shield, impervious apron and footwear. Eyewash
	station and emergency shower should be available in work area. No respiratory
	protection required.

9. Physical and Chemical Properties

Flash Point, ⁰ F	: >200 Degrees F. : <30 Degrees F.
Vapor Density	: Not determined
Solubility in Water	: Soluble
Molecular Formula	: Not applicable, formulated mixture.
Density, g/mL @ 25 °C	: 1.290-1.350
Evaporation Rate(Butyl Acetate =	: Not determined
1)	
Octanol/Water Partition	: No information found
Coefficient	
рН	: 6.50-7.60
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

Chemical Stability	 No information found Stable May produce oxides of nitrogen, oxides of phosphorus and ammonia.
Hazardous Polymerization Conditions to Avoid	 Will not occur Avoid contact with acids and bases. Incompatible with certain metals and bases.

11. Toxicological Information

Acute Toxicity (Oral LD50)	: No information found. May be harmful if swallowed.
	: No hazard anticipated due to skin absorption.
Acute Toxicity Inhalation LC50	: May be irritating to the mucous membranes and respiratory tract if spray mists/vapors are inhaled.
Likely Routes of Exposure	: Skin, eyes, inhalation, ingestion.
Skin Irritation	: May cause skin irritation with prolonged or repeated contact.
Eye Irritation	: May cause eye irritation after direct contact with liquid.
Skin Sensitization	: No information found
Carcinogenic	: Not listed by IARC, NTP or OSHA.
Chronic Effects	: None currently known.
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

	: 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	: No information found
Transportation	
Freight Classification	: Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item
-	68140, Sub 6, Class 70)

HELENA	Safety Data Sheet				Report Date	24-Mar-15
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National Fire Protection Association Rating	Health:	1 Pating Loval:	Fire: 0	2 High	Reactiv	rity: 0 , 1-Slight, 0-Minimum)
S.A.R.A Title III Hazard : Classification (Yes/No)		Raling Level.	(4-EXITEINE,	3-might, 2	2-mouerale,	
	Immediate(Acute) Heal Delayed (Chronic) Heal Sudden Release Pressu Fi Reacti	Ith: N of N ire: ire: N				

16. Other Information

Data of Preparation/Revision : 24-March-2015