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Identification

Product Name: NUCLEUS 0-0-21

Synonyms: None

Product Use : Concentrated Potash Solution and Oxidized Sulfur

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

Skin Irritation: Causes skin irritation

Eye Irritation : Causes serious eye irritation Acute Toxicity Oral : May be harmful if swallowed

Acute Toxicity Dermal: May be harmful in contact with skin.

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

Hazard Statement : May be harmful if swallowed

May be harmful in contact with skin Causes serious eye irritation

Causes skin irritation May be harmful if inhaled

Composition / Information on Ingredients

Component

Blend of plant nutrients, derived from potassium thiosulfate. **GUARANTEED ANALYSIS:** Soluble Potash (K2O): 21.00%

Sulfur (S): 13.00%

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. Rinse

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

unconscious.

Indication of Immediate Medical : **Attention and Special Treatment**

Treat symptomatically. If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s)

Needed labeling.



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Fire Fighting Measures

Extinguishing Media: Non-combustible liquid. Use extinguishing media suitable for underlying cause

of fire.

Specific Hazards Arising from the : Heating this product will evolve sulfur dioxide.

Chemical

Special Fire Fight Proc : Wear a positive-pressure, self-contained breathing apparatus and full

protective clothing. Use water spray to keep fire-exposed containers cool.

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. No respirator normally required. Eyewash should be available in work

: Do not contaminate water supplies, lakes, streams, ponds, sewers or drains with **Emergency Procedures**

spilled product.

Methods and Materials for

Dike and contain spill. If uncontaminated, collect and reuse. If contaminated, **Containment and Cleanup** absorb with an inert material, such as clay or sand. Collect and place absorbent

material in chemical waste container for proper disposal. Wash spill area with

water, then collect and place in same containers with absorbent.

Handling and Storage

Precautions for Safe Handling: Keep out of reach of children. Keep container tightly closed and do not allow

water to be introduced into it. Do not contaminate water sources by cleaning of

equipment or disposal of spray waste.

Conditions for Safe Storage : Store in a dry place. Temperatures below 25 Degrees F. will result in product

crystallization. The product will readily reconstitute, however, with warmer

temperatures and gentle agitation of the container.

Exposure Controls / Personal Protection

TLV/PEL: No TLV or PEL established for mixture.

Appropriate Engineering Controls: Local exhaust sufficient.

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

footwear. No respirator normally required. Eyewash should be available in work

Physical and Chemical Properties

Odor/Appearance: Clear colorless liquid; no appreciable odor.

Flash Point, °F : Non-combustible Boiling Point, ⁰F : Not determined Melting Point(Freezing point), °C : <32 Degrees F.

Vapor Pressure, mm Hg @ 20 °C : Not determined Vapor Density: Not determined Solubility in Water : Dispersible

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.360-1.395 Evaporation Rate(Butyl Acetate = : Not determined

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Octanol/Water Partition : No information found

Coefficient

pH: 7.0 to 8.0

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: Heating of the product will produce sulfur dioxide.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: None currently known

Incompatible Materials: Avoid contact with acids. Contact with acidic materials will cause the release of

sulfur dioxide.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. Ingestion may irritate the gastrointestinal tract. 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 and skin

Skin Irritation: Causes skin irritation.

Eye Irritation: Causes serious eye irritation.

Skin Sensitization : No data available.
Carcinogenic : None currently known.
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: Do not contaminate water supplies, lakes, streams, ponds or drains.

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



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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)

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: 29-April-2015