



7-21-2

GUARANTEED ANALYSIS:

Total Nitrogen (N)	7.00%
7.00% Ammoniacal Nitrogen	
Available Phosphate (P ₂ O ₅)	21.00%
Soluble Potash (K ₂ O)	2.00%
Zinc (Zn)	0.10%
0.10% Chelated Zinc (Zn)	

Derived from: Ammonium phosphate, potassium hydroxide and Zinc EDTA

KEEP OUT OF REACH OF CHILDREN

WARNING

- May be harmful if swallowed
- May be harmful in contact with skin
- Causes eye irritation
- Causes mild skin irritation
- May be harmful if inhaled

WEIGHT PER GALLON: 10.57 lbs (4.80 kg) @ 68°F SN 1214/0415

NET CONTENTS: Bulk: _____

Information about the components of this lot of fertilizer may be obtained by writing to Helena Chemical Company, 225 Schilling Boulevard, Suite 300, Collierville, TN 38017 and giving the lot number which is found on the container.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.htm>

F224

MANUFACTURED FOR
HELENA CHEMICAL COMPANY
225 SCHILLING BOULEVARD, SUITE 300
COLLIERVILLE, TN 38017
901-761-0050

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES.

May be harmful if swallowed. May be harmful in contact with skin. Causes eye irritation. Causes mild skin irritation. May be harmful if inhaled. Keep product locked up and out of the reach of children. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or smoking tobacco. Remove and wash contaminated clothing before reuse. Do not take internally. Avoid contact with or inhalation of spray application mist if present. Do not apply this product in such a manner as to directly expose workers or other persons. If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling. Not for human or animal consumption.

Personal Protective Equipment (PPE): Wear protective eyewear (goggles or face shield), chemical-resistant gloves, long-sleeved shirt and long pants, and shoes plus socks when using this product. Take off any contaminated clothing and wash before reuse.

FIRST AID

IF IN EYES:	<ul style="list-style-type: none"> • Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a POISON CENTER or doctor immediately. • Rinse mouth. Do NOT induce vomiting. • Do not give anything by mouth to an unconscious person. • Immediately call a POISON CENTER or doctor.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air and keep at rest in a position comfortable for breathing if they feel unwell. • If not breathing, call 911 or an ambulance, then give

Disclaimer: Always refer to the label on the product before using Helena or any other product.

	artificial respiration, preferably mouth-to-mouth if possible. <ul style="list-style-type: none"> • Call a POISON CENTER or doctor for treatment advice.
IF ON SKIN OR HAIR:	<ul style="list-style-type: none"> • Take off immediately all contaminated clothing. Rinse skin with water or shower. • Get medical attention if irritation develops or persists. • Wash contaminated clothing before reuse.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
STORAGE: Store in original container only. Keep container tightly closed. Do not allow water to be introduced into the contents of this container. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate. Keep locked up and out of the reach of children

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading and add rinse water to spray tank. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrecycle.org. Decontaminated containers may also be disposed of in a sanitary landfill.

For help in chemical emergencies involving spill, leak, fire or exposure, call toll free 1-800-424-9300.

GENERAL INFORMATION

NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2 is a stabilized solution containing water soluble orthophosphate in combination with nitrogen, soluble potash and EDTA chelated zinc.

NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2 is compatible with many liquid fertilizers and pesticides, provided that the following guidelines are followed:

1. Do not mix **NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2** with undiluted pesticides.
2. Mixtures of **NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2** with fertilizers based on potassium thiosulfate and/or ammonium thiosulfate should be applied directly after mixing.
3. Do not mix or apply with products containing calcium, magnesium, copper, manganese or zinc unless they are fully chelated.
4. Always "Jar Test" all tank mixes for compatibility before mixing for field applications.

GENERAL RECOMMENDATIONS

NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2 may be applied to agricultural plants where applications of nitrogen, phosphorous and potassium are recommended.

NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2 should be used at the rate of 2-5 Gallons per Acre – depending on plant needs. **NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2** when used as directed, this product does not supply all nutrients required by plants and is to supplement a soil fertility program based on soil tests. **NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2** may be applied through ground application or irrigation equipment. For ground applications equipment, **NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2** may be applied alone or in combination with water and/or liquid fertilizer.

APPLICATION AND MIXING GUIDE

APPLICATION RATES: 2 to 5 gallons per acre according to soil fertility/crop needs. Product should not be used if plant is under stress from pests, heat or inadequate soil moisture.

USE GUIDELINES:

In-Furrow:

- Corn: Apply 3 to 5 gallons per acre
- Beans (soya, edible, dry): Apply 2 to 3 gallons per acre
- Milo (grain sorghum): Apply 2 to 4 gallons per acre
- Sunflower: Apply 3 to 5 gallons per acre
- Sugarbeet: Apply 3 to 4 gallons per acre
- 2x2/Side Dress: 2 to 5 gallons per acre

PLANTS:

Cotton: Apply 2 to 3 gallons per acre as a 2x2 placement in the soil. Not recommended for use in furrow.

Chemigation/Water Run: 2 to 5 gallons per acre

MIXING: In any mixing operation introduce **NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2** in the following sequence:

1. Water
2. **NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2**
3. Other Fertilizers
4. Pesticides or Soil conditioners

NOTE: NUCLEUS® ORTHO-PHOS NPK ZN 7-21-2 may crystallize in freezing temperatures but will reconstitute in warmer temperatures.

**CONDITIONS OF SALE-LIMITED WARRANTY
AND LIMITATIONS OF LIABILITY AND REMEDIES**

Read the Conditions of Sale-Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

This label is believed to be reliable and MUST be followed carefully. Injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

© Copyright Helena Holding Company, 2015

NUCLEUS® is a registered trademark of Helena Holding Company.