



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

Causes mild skin irritation
Causes mild eye irritation
May cause allergic skin reaction
Harmful if swallowed

See Inside Panel for Additional
Precautionary Statements



SN 060313/1214

WEIGHT PER GALLON: 10.57 lbs (4.80 kg) @ 68°F

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

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

Causes mild skin irritation. Causes mild eye irritation. May cause allergic skin reaction. Harmful if swallowed. Avoid contact with formulated product. Do not take internally. Avoid contact with or inhalation of the spray mist. If product is being mixed with pesticides, other fertilizers, and/or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling.

Personal Protective Equipment (PPE): Wear protective gloves and eye/face protection.

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none">• Induce vomiting.• Immediately call a doctor or a poison control center.
IF IN EYES:	<ul style="list-style-type: none">• Flush eyes with clean water for 15 minutes.• Call a doctor or poison control center if irritation persists.
IF ON SKIN:	<ul style="list-style-type: none">• Remove contaminated clothing and wash skin with soap and water.• Call a doctor if irritation develops or persists.
IF INHALED:	<ul style="list-style-type: none">• Move to fresh air and call a doctor if irritation develops or persists.

If there is contact made with a spray solution containing pesticides and/or other products, follow the "Statement of Practical Treatment/First Aid" on the label requiring the most stringent treatment.

STORAGE AND DISPOSAL

Keep container tightly closed. May be stored in unheated area, but keep from freezing.

Do not contaminate water sources by cleaning of equipment or disposal of rinse-water.

Dispose of empty containers by triple rinsing (or equivalent) with water and pouring rinsate into spray tank. Recycle rinsed containers whenever possible or puncture and discard empty containers in a landfill in accordance with current local, state and federal regulations.

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, phosphorus 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.

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