



8-24-0

GUARANTEED ANALYSIS:

Total Nitrogen (N)	8.00%
8.00% Ammoniacal Nitrogen	
Available Phosphate (P ₂ O ₅)	24.00%
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	

Derived from: Ammonium phosphate and Iron 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: 10.65 lbs (4.83 kg) @ 68°F SN 032415/0815G

NET CONTENTS: ☐ 5 gal. (18.93 L)
☐ 250 gal. (946.25 L)
☐ 275 gal. (1040.99 L)
☐ 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. Do not smoke, drink, or eat while using this product. Take off any contaminated clothing and wash before reuse.

FIRST AID	
IF SWALLOWED:	Call a poison center or doctor if you feel unwell: Rinse mouth.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
IF ON SKIN:	Remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice/attention.
IF INHALED:	Call a poison center or doctor if you feel unwell.

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 rinse into spray tank. Recycle rinsed containers whenever possible or puncture and discard empty containers in a landfill in accordance with current local, state, international and federal regulations.

GENERAL INFORMATION

This fertilizer contains phosphorous and may not be used on turf in the state of Maryland.

NUCLEUS® ORTHO-PHOS is a stabilized solution containing a high concentration of 100% water soluble orthophosphate in combination with nitrogen and EDTA chelated iron.

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

1. Do not mix NUCLEUS® ORTHO-PHOS with undiluted pesticides.
2. Mixtures of NUCLEUS® ORTHO-PHOS 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, zinc or iron unless they are fully chelated.
4. Do not combine with antibiotics or spray oils.
5. Always "Jar Test" all tank mixes for compatibility before mixing for field applications.

GENERAL RECOMMENDATIONS

NUCLEUS® ORTHO-PHOS may be applied to agricultural plants and/or turf where applications of nitrogen and/or phosphorous are recommended. NUCLEUS® ORTHO-PHOS should be used at the rate of 2-10 Gallons per Acre – depending on plant needs. NUCLEUS® ORTHO-PHOS 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 may be applied through ground application or irrigation equipment. For ground applications equipment, NUCLEUS® ORTHO-PHOS may be applied alone or in combination with water and/or liquid fertilizer.

In Virginia, this lawn/turf fertilizer contains phosphorous and is only for nonagricultural use on (i) turf during its first growing season, (ii) on turf areas being repaired or renovated, and (iii) on turf where a soil test performed within the last 3 years indicates a phosphorous deficiency. This fertilizer is not for the routine maintenance of turf.

APPLICATION AND MIXING GUIDE

APPLICATION RATES: 2 to 10 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

Potatoes: Apply 3 to 5 gallons per acre

Wheat: Apply 2 to 5 gallons per acre

Beans (soya, edible, dry): Apply 2 to 3 gallons per acre. Use lower use rate on lighter soils.

Sunflowers: Apply 3 to 5 gallons per acre

Sugarbeets: Apply 3 to 4 gallons per acre

2x2/Side Dress: 2 to 10 gallons per acre

PLANTS:

Citrus: (Established) Apply 2-4 gallons per acre per application in 2 or more applications per season via fertigation.

Drench Application: (Established/transplanted/young trees) Mix 10 gallons of NUCLEUS® ORTHO-PHOS with 35 gallons of water. Apply 1.0 to 2.5 ounces per tree every 6-12 weeks.

Cotton: Apply 1 to 3 gallons per acre as a 2x2 placement in the soil. Not recommended for use in-furrow.

Chemigation/Water Run: 2 to 10 gallons per acre

Turf: Apply 6 to 12 fl. ounces per 1,000 sq. ft. using 2 to 5 gallons of water per 1,000 sq ft. Apply as needed.

DO NOT APPLY NEAR WATER, STORM DRAINS, OR DRAINAGE DITCHES. DO NOT APPLY IF HEAVY RAIN IS EXPECTED. APPLY THIS PRODUCT ONLY TO YOUR LAWN/GARDEN.

MIXING: In any mixing operation introduce NUCLEUS® ORTHO-PHOS in the following sequence:

1. Water
2. NUCLEUS® ORTHO-PHOS
3. Other Fertilizers
4. Pesticides or Soil conditioners

NOTE: NUCLEUS® ORTHO-PHOS may crystallize in freezing temperatures but will reconstitute in warmer temperatures.

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

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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