

# Nucleus<sup>NPK</sup> Fe

## ORTHO-PHOS

### TURF and ORNAMENTAL

# 6-21-2

#### GUARANTEED ANALYSIS:

Total Nitrogen (N).....	6.00%
6.00% Ammoniacal Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	21.00%
Soluble Potash (K <sub>2</sub> O).....	2.00%
Iron (Fe).....	0.20%
0.20% Chelated Iron (Fe)	

Derived from: Ammonium phosphate, potassium hydroxide and Iron EDDHA

## KEEP OUT OF REACH OF CHILDREN WARNING

Causes mild skin irritation  
Causes mild eye irritation  
May cause an allergic skin reaction  
Harmful if swallowed  
Wear protective gloves and Eye/Face protection

See Inside Panel for Additional  
Precautionary Statements



SN 102413

WEIGHT PER GALLON: 10.79 lbs (4.90 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.aapco.org/metals.htm>

**THIS FERTILIZER CONTAINS PHOSPHOROUS AND MAY NOT BE USED ON TURF IN THE STATE OF MARYLAND. DO NOT APPLY NEAR WATER, STORM DRAINS, OR DRAINAGE DITCHES. DO NOT APPLY IF HEAVY RAIN IS EXPECTED.**

Manufactured For  
**HELENA CHEMICAL COMPANY**  
225 SCHILLING BOULEVARD, SUITE 300  
COLLIERVILLE, TN 38017

### PRECAUTIONARY STATEMENTS

## WARNING

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

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.

### WHAT TO DO IN CASE OF CONTACT:

- IF SWALLOWED:** Induce vomiting. Immediately call a doctor or a poison control center.
- IF IN EYES:** Flush eyes with clean water for 15 minutes. Call a doctor or poison control center if irritation persists.
- IF ON SKIN:** Remove contaminated clothing and wash skin with soap and water. Call a doctor if irritation develops or persists.
- IF INHALED:** 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 FE T&O 6-21-2** is a stabilized solution containing water soluble orthophosphate in combination with nitrogen, soluble potash and EDDHA iron.

**NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2** is compatible with many liquid fertilizers and pesticides, provided that the following guidelines are followed:

1. Do not mix **NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2** with undiluted pesticides.
2. Mixtures of **NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2** 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 FE T&O 6-21-2** may be applied to turf and ornamental plants where applications of nitrogen, phosphorous and potassium are recommended. **NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2** should be used at the rate of 2-5 Gallons per Acre - depending on plant needs. **NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2** 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 FE T&O 6-21-2** may be applied through ground application or irrigation equipment. For ground applications equipment, **NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2** should be applied in combination with 2-3 gallon of water and/or liquid fertilizer.

## APPLICATION AND MIXING GUIDE

**APPLICATION RATES:** 1 to 5 gallons per acre according to soil fertility needs. Product should not be used if plant is under stress from pests, heat or inadequate soil moisture. **1 gallon of NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2 contains 0.02 lbs. of EDDHA Fe.**

**TURF RECOMMENDATIONS:** Apply at the following rates per 1000 Sq Ft in sufficient water volume to provide adequate coverage.

Rate: Fluid ounces/M SQ FT	6.0 oz	9.0 oz	12.0 oz	15.0 oz
Lbs N	.03	.045	.06	.075
Lbs P	.105	.16	.21	.265
Lbs K	.01	.015	.02	.025

**TREE and SHRUB Recommendations:** Mix 2 gallon **NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2** in 100 gallons of water and use as root feed solution. Apply as needed.

**MIXING:** In any mixing operation introduce **NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2** in the following sequence:

1. Water
2. **NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2**
3. Other Fertilizers
4. Pesticides or Soil conditioners

**NOTE:** **NUCLEUS® ORTHO-PHOS NPK FE T&O 6-21-2** 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 should 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.