



# HI-PHOS

## 12-48-8

### Soluble Fertilizer with Micronutrients

#### GUARANTEED ANALYSIS

Total Nitrogen (N) .....	12.00%
9.5% Ammoniacal Nitrogen	
2.5% Nitrate Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	48.00%
Soluble Potash (K <sub>2</sub> O) .....	8.00%
Boron (B) .....	0.02%
Copper (Cu) .....	0.05%
0.05% Chelated Copper (Cu)	
Iron (Fe) .....	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn) .....	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo) .....	0.0005%
Zinc (Zn) .....	0.05%
0.05% Chelated Zinc (Zn)	

Derived from potassium nitrate, ammonium phosphate, potassium phosphate, ammonium nitrate, copper EDTA, iron EDTA, manganese EDTA, zinc EDTA, sodium borate and ammonium molybdate.

Chlorine (Cl), maximum .....

Chelating agent is EDTA (ethylenediaminetetraacetic acid).

Potential Acidity equivalent to 950 lbs. Calcium Carbonate (CaCO<sub>3</sub>) per ton.

#### KEEP OUT OF REACH OF CHILDREN

### WARNING

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



Contains **BORON** and **MOLYBDENUM**. Crops sensitive to **BORON** and/or **MOLYBDENUM** may be injured. Plants containing excess amounts of **MOLYBDENUM** are toxic to grazing ruminant animals.

NET WEIGHT: 25 lbs (11.34 kg) SN 050515G

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

### 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 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

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

socks when using this product. Take off any contaminated clothing and wash before reuse.

<b>FIRST AID</b>	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>Call a POISON CENTER or doctor immediately.</li> <li>Rinse mouth. Do NOT induce vomiting.</li> <li>Do not give anything by mouth to an unconscious person.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air and keep at rest in a position comfortable for breathing if they feel unwell.</li> <li>If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a POISON CENTER or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR HAIR:</b>	<ul style="list-style-type: none"> <li>Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>Get medical attention if irritation develops or persists.</li> <li>Wash contaminated clothing before reuse.</li> </ul>
<b>HOT LINE NUMBER</b>	
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.acrcycle.org](http://www.acrcycle.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.

#### SUGGESTED DIRECTIONS

**GENERAL USE:** Apply 3 to 10 lbs. per acre as a foliar application to supplement the normal soil applied fertility program. Can be applied by aircraft at rates equivalent to 1 lb. in 1 gal. of water per acre. For backpack sprayers, use at the rate of 6 grams per liter or 4 teaspoons per gallon.

**COMPATIBILITY:** TRACITE® HI-PHOS 12-48-8 is compatible with most pesticides commonly used on vegetable, fruit and agronomic crops. **WARNING:** Do not use with Dormant Oil, Lime Sulfur, Spray Lime, or highly alkaline spray materials. Add TRACITE® HI-PHOS 12-48-8 to the spray tank or pre-mix when it is about half-full. Agitation in the tank is preferred to increase the speed of solubility. Where extremely cold water is used, allow a few extra minutes for the product to completely dissolve before spraying.

#### TRANSPLANTING

Use 5 to 6 lbs. per 100 gallons of water or 1 cup of mix per plant for hand setting. Transplanting requires about 200 to 300 gallons of water per acre, or 10 to 15 lbs. of TRACITE® HI-PHOS 12-48-8 per acre.

**FRUIT, NUT AND WOODY ORNAMENTALS:** Dissolve 5 to 6 lbs. of TRACITE® HI-PHOS 12-48-8 in 100 gal. of water, or 2½ standard level tablespoonfuls per gallon, or 2/3 standard level teaspoon per pint. Use 1 gal. of solution to each tree at time of planting. For larger trees and shrubs, use 1 gal. of solution for each inch of trunk diameter (measurement taken at ground level).

**SOIL DRENCH FOR SEEDED CROP:** Dissolve ¼ lb. of TRACITE® HI-PHOS 12-48-8 in 100 gals. of water. Apply the solution in the seed row and cover with soil. Use ½ pt. to every 2 ft. of row. Once a stand is established, you may foliarly apply TRACITE® HI-PHOS 12-48-8 at 2 lbs. on a 10" to 16" band for improved plant vigor.

#### FOLIAR SPRAY

**APPLES, BANANA, PEACHES, PEARS, PLUMS, NECTARINES, APRICOTS, CHERRIES, CITRUS FRUITS, FIGS, AVOCADOS, MANGOES, PAPAYA, KIWI, FILBERTS, CHESTNUTS, MACADAMIA NUTS, WALNUTS, PECANS AND ALMONDS:** Use at the rate of 3 to 10 lbs. per acre when applying with concentrate sprayers. Apply early in the growing season and whenever supplemental feeding is necessary to improve tree vigor, fruit or nut set or during adverse weather conditions. Can be applied in combination with almost all insecticide and fungicide programs. For most tree crops, 3 to 5 applications are desirable through the growing season. **WARNING:** On many tree crops, late season TRACITE® HI-PHOS 12-48-8 sprays frequently improve tree vigor. Caution should be used with late season sprays as nitrogen applied at that time can delay

fruit maturity and reduce fruit color on some varieties. Low rates of TRACITE® HI-PHOS 12-48-8 should be used until fruit is picked.

**STRAWBERRIES:** Use at the rate of 3 to 10 lbs. per acre when the first fruit buds show in the crown. Three or more additional applications are desirable at 7 to 10 day intervals.

**GRAPES, RASPBERRIES, BLACKBERRIES:** Use at the rate of 3 to 10 lbs. per acre early in the season or whenever it is necessary to improve vine or cane vigor and growth.

**WARNING:** Where fruit color and maturity is delayed by nitrogen application, do not use TRACITE® HI-PHOS 12-48-8 within 60 days of ripening.

**ROW CROPS (SOYBEANS, PEANUTS, FIELD CORN, POPCORN, SUGAR BEETS, TABLE BEETS, SWEET POTATOES AND PINEAPPLES):** Use at the rate of 3 to 10 lbs. per acre to improve growth and yield. One to 5 applications are desirable depending on the crop and the season.

**COTTON: EARLY SEASON** – To improve early vigor and fruiting, apply TRACITE® HI-PHOS 12-48-8 foliarly on a 10" to 16" band for four applications: first and second applications at 2 lbs. on a 10" band with the third and fourth applications at 2 to 3¼ lbs. on a 16" band. Begin this program when a cotton stand is established and continue applications on a 7 to 10 day interval. **FULL SEASON – TRACITE® HI-PHOS 12-48-8** may also be used at 3 to 10 lbs. per acre continuing after first flower to increase flowering and reduce ranky growth. One to 5 applications are desirable depending on the growing season.

**FORAGE AND HAY CROPS (ALFALFA, CLOVER AND GRASSES SUCH AS ORCHARDGRASS AND TIMOTHY):** To stimulate growth and improve plant vigor, apply TRACITE® HI-PHOS 12-48-8 as a foliar spray at the rate of 3 to 10 lbs. per acre.

Applications can be made at 7 to 10 day intervals, depending on the amount of growth desired.

**SEED CROPS (ALFALFA, CLOVER, CARROTS, LETTUCE AND ASPARAGUS):** To improve crop growth and yield, apply 3 to 10 lbs. per acre just prior to head formation. To further stimulate yield, 1 or 2 earlier applications are desirable. Apply at 7 to 10 day intervals.

**TOMATOES, PEPPERS, CUCUMBERS, MELONS, AND SQUASH:** Use at the rate of 3 to 10 lbs. per acre. First application should be made when the plants are 3 to 4 weeks old. Repeat at 7 to 10 day intervals. Apply 5 to 7 applications per season for best results.

**POTATOES:** Use at the rate of 3 to 10 lbs. per acre. TRACITE® HI-PHOS 12-48-8 improves foliage color as well as tuber development even when soil conditions are unfavorable. Potatoes set 71% of their tubers between the 70th day and the 100th day after planting. TRACITE® HI-PHOS 12-48-8 helps carry the plant through adverse soil and temperature conditions which may occur during this critical period. Suggest applying when plants are young and continue at 7 to 10 day intervals, as needed, particularly through the 30 day tuber setting period.

**CELERY, LETTUCE, ENDIVE, BROCCOLI, CABBAGE, CAULIFLOWER, BRUSSELS SPROUTS, KALE AND SPINACH:** Use TRACITE® HI-PHOS 12-48-8 as a starter solution at the rate of 3 lbs. per 100 gallons of water at time of transplanting. For use as a foliar nutritional spray, apply at the rate of 3 to 10 lbs. per acre when the plants have been established for approximately 3 weeks. Use 3 to 6 sprays per season at 7 to 10 day intervals, depending on weather conditions and crop vigor.

**CARROTS, PARSLEY, ASPARAGUS:** Foliage efficiently uses high concentration of nutritional sprays: apply at the rate of 3 to 15 lbs. per acre. Frequency of application depends on prevailing weather conditions and amount of growth desired.

**BEANS, PEAS, SWEET CORN, LENTILS AND ONIONS:** Use at the rate of 3 to 10 lbs. per acre when plants are 3 to 4 weeks old. Repeat applications at 7 to 10 day intervals or as needed.

**CORN, SORGHUM, WHEAT, BARLEY, OATS, RYE, RICE, SUNFLOWER AND SUGARCANE:** Apply at the rate of 3 to 10 lbs. per acre throughout the growing season, whenever it is necessary to stimulate growth and improve plant vigor. On small grains, applications at early tillering and when 10% of the heads are visible are most beneficial.

#### **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:

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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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