

**CAUTION** – This product contains BORON and MOLYBDENUM. Determine plant sensitivity prior to use. Plants containing excess MOLYBDENUM are toxic to livestock. Crops sensitive to either of these two elements may be injured.



# SOL-U-GRO® 12-48-8

with Minor Elements

## SOLUBLE FERTILIZER CONCENTRATE FOR FOLIAR SPRAYS AND TRANSPLANT SOLUTIONS

### GUARANTEED ANALYSIS

TOTAL NITROGEN (N) .....	12%
9.5% Ammoniacal Nitrogen	
2.5% Nitrate Nitrogen	
AVAILABLE PHOSPHATE (P <sub>2</sub> O <sub>5</sub> ) .....	48%
SOLUBLE POTASH (K <sub>2</sub> O) .....	8%
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.	
Chelating agent is EDTA (ethylenediaminetetraacetic acid).	
Chlorine (Cl) maximum .....	0.025%
Potential Acidity equivalent to 829 lbs. Calcium Carbonate (CaCO <sub>3</sub> ) per ton.	

### F501

### 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 pound in 1 gallon of water, per acre. For back-pack sprayers use at the rate of 6 grams per liter or 4 teaspoonfuls per gallon.

**COMPATIBILITY:** SOL-U-GRO is compatible with most pesticides commonly used on vegetable, fruit and agronomic crops. **CAUTION:** Do not use with Dormant Oil, Lime Sulfur, Spray Lime, or highly alkaline spray materials. Add SOL-U-GRO 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. (1 cup of mix per plant for hand setting.) It requires about 200 to 300 gallons of water per acre for transplanting, or 10 to 15 lbs. of SOL-U-GRO per acre.

**FRUIT, NUT AND WOODY ORNAMENTALS:** Dissolve 5 to 6 lbs. of SOL-U-GRO in 100 gals. of water, or 2½ standard level tablespoonfuls per gallon, or ⅔ standard level teaspoonful 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 SOL-U-GRO 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 SOL-U-GRO 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. **CAUTION:** On many tree crops, late season SOL-U-GRO sprays frequently improve tree vigor and increase bud set for the next crop. 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 SOL-U-GRO 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 AND BLUEBERRIES:** 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. **CAUTION:** Where fruit color and maturity is delayed by nitrogen application, do not use SOL-U-GRO 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 SOL-U-GRO 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)** SOL-U-GRO may also be used at 3 to 10 lbs. per acre continuing after first flower to increase flowering and reduce ranky growth. One to five 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 SOL-U-GRO 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. SOL-U-GRO 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. SOL-U-GRO 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 SOL-U-GRO as a starter solution at the rate of 3 lbs. per 100 gals. 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.

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

Use this product in accordance with good agronomic practices, which include utilizing proven spray equipment set for proper coverage. Do not make applications when temperatures are too hot. Applications should be made at temperature levels and when other environmental conditions in your area are such that your experience indicates the application will be compatible and will accomplish the desired result.

**LIMITED WARRANTY:** The use of this material being beyond our control and involving elements of risk to human beings, animals and vegetation, we do not make any warranty, express or implied, as to the effects of such use, when this product is not used in accordance with the directions as stated on this label.

Information concerning the raw materials composing this product can be obtained by writing to Miller Chemical & Fert. Corp., P.O. Box 333, Hanover, PA 17331. Please refer to the batch number found on this container.

4/04M

F.N.3700D

Prod. No. 24735

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**MILLER CHEMICAL & FERTILIZER CORPORATION  
P.O. Box 333, Hanover, Pennsylvania 17331, U.S.A.**

**Net Weight 25 lb (11.34 kg)**