

PHYTOZYM™ 2-2-2

Liquid Foliar Spray and Seed Treatment

PRODUCT DESCRIPTION

PHYTOZYM 2-2-2 Liquid Foliar Spray and Seed Treatment is a stabilized biochemical concentrate containing microbial extracts, chelated micronutrients, essential plant nutrients and trace minerals. With its chelating and organic complexing ingredients, PHYTOZYM 2-2-2 enhances the penetration of nutrients and other growth stimulating factors through the barrier layer of foliar, stem and seed parts of plants. Chelated micronutrients are more available to plants than micronutrients bound to soil particles. PHYTOZYM 2-2-2 contains cellular extracts from selected microorganisms, including marine algae that supply unidentified growth factors that stimulate the natural growth processes of plants.

PHYTOZYM 2-2-2 should be used as an adjunct to proper fertilization and good soil management, and is not designed to replace regular fertilization programs. PHYTOZYM 2-2-2 may be considered a specialty fertilizer but not a complete fertilizer.

PERFORMANCE

PHYTOZYM 2-2-2 has been carefully formulated to provide a number of benefits, as summarized below. These effects are supported by university research (bibliography separately available).

- Stimulates chlorophyll synthesis, photosynthesis and plant growth activity.
- Promotes the mobilization and translocation of iron in plants.
- Promotes earlier maturity in plants.
- Improves the resistance of plants to frost by increasing the mineral content of plant tissues.
- Improves the resistance of plants to various plant diseases.
- Improves the retention and color of blossoms.
- Retards senescence, the natural aging process in plants.
- Improves the resistance of plants to wilt during period of low humidity.
- Helps improve the storability of fruits and vegetables.
- Helps overcome transplant shock in plants.
- Increases crop yields and quality.
- Helps to improve germination when used as a seed treatment.

IN SUMMARY

**PHYTOZYM 2-2-2 Increases
Profits !!**

GENERAL APPLICATION SUGGESTIONS

TREATMENT RATE

For best results, use one quart per acre (2.3 liters per hectare) of PHYTOZYM 2-2-2 concentrate in a water dilution. Dilution rate and spray frequency vary by crop application. However, for foliar sprays, this treatment rate is constant. It is important to stick to this rate as lower rates may not provide sufficient plant stimulation and higher rates also may have adverse effects. For crops where multiple treatments are recommended, PHYTOZYM 2-2-2 has a cumulative effect on plant growth stimulation.

DILUTION

Do not apply undiluted PHYTOZYM 2-2-2 directly to plants or foliage.

The amount of water required for proper coverage depends upon the soil type, quantity of plant foliage, and type of spraying equipment used. Suggested dilutions vary by crop and spray application method but are in the range of 1:20 to 1:100. The objective is to provide good coverage. For highly efficient high pressure mist sprayers with low volume output, lower dilutions of PHYTOZYM 2-2-2 give the best results. Aerial applications should use a lower 1:10 dilution rate.

Dilution water quality can affect PHYTOZYM 2-2-2 performance. Best results are obtained when dilution pH is neutral or slightly on the acid side (pH = 6.5-7.5). Vinegar or phosphoric acid may be used to adjust pH if necessary.

FIELD FOLIAR APPLICATION

PHYTOZYM 2-2-2 should be atomized as a fine micron mist for maximum effect. Apply to vegetation with any type of spraying equipment that will give a fine mist or fog-type spray and maximum leaf coverage. Where mist spraying is not possible, an agricultural wetting agent may be used as a spray adjuvant to increase coverage.

TIMING

For maximum effect, PHYTOZYM 2-2-2 is best-applied about one hour after sun-up until 11:00 am, and from 5:00 PM until darkness. Because normal plant activity and energy are at their highest levels during the morning, the beneficial effects of PHYTOZYM 2-2-2 are at a peak during this period.

The initial application should be made when broad leaf plants have developed 6 to 8 leaves and grain crops have grown to 6 to 12 inches. The final application should be made 7 to 10 days prior to blossoming, tasseling, flowering or booting to ensure maximum pollination. If application is made too close to blossoming, tasseling, flowering or booting, plant growth may be stunted.

Do not apply when rain is imminent.

PLANT NUTRITIONAL STATE

Application of PHYTOZYM 2-2-2 is also advised whenever plants are showing signs of stress from drought, nutrition, pests or disease. This may be an additional treatment for some crops. However, the PHYTOZYM 2-2-2 benefit to drought stressed crops may be lost unless supplemental water is available.

PHYTOZYM 2-2-2 shows its greatest effect with plants grown in low nutrient poorly fertilized soil. For some well-fertilized plants, the effect of PHYTOZYM 2-2-2 may be minimal.

COMPATIBILITY

Do not tank mix with or co-apply PHYTOZYM 2-2-2 with herbicides, fungicides or other pesticides or growth regulators. Do not spray a herbicide or growth regulator within ten days before or after the PHYTOZYM 2-2-2 treatment. If trace minerals are to be used within ten days of PHYTOZYM 2-2-2 spray, use chelated micronutrients. Thoroughly rinse spray equipment with water before and after use. PHYTOZYM 2-2-2 is sold as a liquid concentrate in order to maintain maximum activity and stability. Use all dilutions within 24 hours after their preparation; do not store.

SPECIFIC APPLICATION SUGGESTIONS

SEED TREATMENT

To improve seed germination and promote earlier maturation, wet seeds or tubers with PHYTOZYM 2-2-2 prior to planting. A 1:100 dilution is normally suggested. However, good results have been obtained on lentils by application of neat PHYTOZYM 2-2-2 at 4 to 8 ounces per 100 pounds seed.

CROP FOLIAR TREATMENT

Grain, Feed and Forage Crops: Use a 1:100 dilution for wheat, oats, barley, rye, rice, milo, grain, sorghum, soybeans, alfalfa and cotton. Apply PHYTOZYM 2-2-2 seven to ten days prior to flowering, tasseling, or booting of small grains. For forage, apply once after each cutting.

Winter Cereals, Low Risk of Drought: Apply PHYTOZYM 2-2-2 at GS31 (first node fully developed) to stimulate higher ear count. Make an additional spray at flag leaf when high yield potential appears likely.

Winter Cereals, High Risk of Drought: Apply PHYTOZYM 2-2-2 at flag leaf stage to encourage successful grain filling.

Field Crops and Vegetables: Use a 1:75 dilution for corn, potatoes, grapes, berries and sugar beets. Under normal growing conditions, apply once per crop. If plants come under stress, apply another treatment. PHYTOZYM 2-2-2 (1:75) should be used only once on tomatoes, cucumbers, carrots, melons, pumpkins, squash, peppers, cabbage and beets prior to bloom.

High Dry Matter (Low Tuber Initiating) Potatoes: Do not use.

Other Potato Varieties: Apply PHYTOZYM 2-2-2 just after tubers begin to form on stolons or at row meet to stimulate higher yields through larger and more uniform tubers with higher starch and better skin finish.

Sugar Beets: Apply PHYTOZYM 2-2-2 when 10-12 true leaves show (typically mid-June) to stimulate photosynthesis to generate root size and total sugar yield.

Fruit and Nut Trees: Use a 1:100 dilution for apricots, cherries, plums, prunes, nectarines, peaches, apples, pears, oranges, lemons, limes, almonds, walnuts, pecans and pistachios. Apply before flowering.

Citrus Groves: Application should be made two weeks prior to bloom and several times during the growing season. Large citrus trees under stress may require one gallon (US) per acre (9.4 liters/hectare) PHYTOZYM 2-2-2 applied as a 1:100 dilution. Later in the season, a second application may be used if needed.

Shade Trees: Use a 1:100 dilution for large trees with as much additional water as necessary to provide complete coverage of the foliage. Apply as a fine mist spray when sufficient foliage cover has developed.

Lawn and Ornamentals: Use a 1:50 dilution for flowers, shrubs and lawns. Apply in early spring when plants are growing strongly and there is sufficient foliage for good spray coverage. Avoid spraying during flower budding.

Vineyards: Use a 1:75 dilution spray at the beginning of spring growth, prior to bloom, and again during late maturity of the fruit.

PRODUCT DATA

| | |
|------------------------|------------|
| Color | Dark Brown |
| pH (concentrate) | 6.2 - 6.8 |
| Specific Gravity, 20°C | 1.21 |
| Odor | Yeasty |

GUARANTEED ANALYSIS

| | |
|--|---------|
| Total Nitrogen (N) | 2% |
| Available Phosphoric Acid (P ₂ O ₅) | 2% |
| Soluble Potash (K ₂ O) | 2% |
| Boron (B) | 0.02% |
| Copper (Cu) | 0.05% |
| Iron (Fe) | 0.10% |
| Manganese (Mn) | 0.05% |
| Molybdenum (Mo) | 0.0008% |
| Zinc (Zn) | 0.10% |

PACKAGING: 190 liters (50 US gallons) in plastic drums with 226 kg (500 pounds) net weight

PRODUCT STORAGE

Biological products are unlike inert chemical products. They require special treatment during storage and handling. Therefore, for PHYTOZYM 2-2-2,

- * Do not store continuously at temperatures above 40°C (104°F).
- * Store out of direct sunlight in a well-ventilated area.
- * Do not let water dilutions of product stand more than 24 hours before use.

SAFETY

Users are advised to consult the Material Safety Data Sheet for information and guidance.

Keep out of reach of children.

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