General Use Instructions and Recommendations for Using O2YS Corp and Organisan Corp Products

OII-YS, O1-YS, Enhan-cer 1, Enhan-cer 2, Avian-1, Avian-2 and Nemasan.

Shake jugs well before adding to your spray tank!

Adjust pH of Tank Mix with CitriSan to 5.0 or below prior to adding product.

Spray Tank Mix Order

Suggested order of multi-chemical mixing and adding product:

1. Water
2. Fertilizers
3. Water dispersible granules
4. Wettable powders
5. Flowables
6. Water soluble solutions, granules or powders
7. Emulsions
8. Emulsifiable concentrates
9. Remaining water
10. Adjust pH of tank mix to 5 or below using CitriSan Citric Acid or Vinegar
11. Add product

Always consult the manufacturer's recommendations before mixing.

"Quart Jar" Compatibility Test

To ensure compatibility of tank-mix combinations they must be evaluated prior to use. To determine the physical compatibility of product with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to one quart of water with agitation. A quart is 0.001 of a 250 gallon tank mix or 0.025 of a 100 gallon tank mix. Mix in the order indicated above at your usage rates. Cap and shake vigorously with each ingredient addition. Allow to set undisturbed for at least ten minutes, then check for a homogenous mixture. After thoroughly mixing all components, let this mixture stand for 5 minutes. If the combination remains mixed or can readily be remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank. Common incompatibilities are indicated by large particles, oily residue and excessive sediment. This is an inexpensive static test that works well most of the time. Sometimes spray tank size, agitation or time will prevent or increase incompatibilities.

Application Protocol

Products are intended for use on fruits, vegetables, row crops, cereal crops, nut crops, turf and vineyards. Apply products with a fertilizer, fungicide, herbicide or pesticide on annual and perennial crops applied via broadcast or through drip or border irrigation systems. We recommend 1 application of product at 1 pint per acre at planting and 1 additional application at 15 or 30 days into the growth cycle. Typically, no more than 2 applications per growing cycle is needed.

Initial Tank Mixes

Follow manufacturer's guidelines for cleaning spray equipment prior to mixing. Fill tank to desired amount with water, add all other spray components and agitate as directed. Buffer the mixture to pH 5.0 or below with CitriSan before adding product. Make a note of how much CitriSan it takes to bring the pH below 5.0. Start the mechanical or hydraulic agitation to provide moderate circulation before adding product. Add the desired volume of product to the mix tank and the remaining volume of water and continue circulation. Maintain circulation while loading and spraying. (Excessive agitation may lead to foaming of spray solution.)

Subsequent Tank Mixes

Add the amount of acid needed to bring the first tank mix down to pH of 5.0 or below with CitriSan. Then fill tank to the desired amount with water, add all other spray components and agitate as directed. Start the mechanical or hydraulic agitation to provide moderate circulation before adding product. Add the desired volume of product to the

mix tank along with the remaining volume of water and continue circulation. Maintain circulation while loading and spraying. (Excessive agitation may lead to foaming of spray solution). Due to residuals being left in the tank and lines, it is necessary to add acid to the tank before water in the subsequent tank-mixes to avoid flocculation.

Do not mix more product than can be used in 24 hours.

Do not combine product in the spray tank with other pesticides, surfactants, adjuvants, or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective, or non-injurious under your use conditions.

Tank Cleanout

After all spray applications are completed, it is recommended the spray tank be throughly cleaned to avoid conflicts with future chemicals.

Before filling tank with water, open and add 1-2 packs of CitriSan. Fill tank with a minimum of 25-50 gals of water agitate and spray to cleanse the system.

Compatibility Testing

To ensure compatibility of tank-mix combinations they must be evaluated prior to use. To determine the physical compatibility of product with other additives, use a jar test. Using a quart jar, add the proportionate amounts of the additives to one quart of water with agitation. Add dry formulations first, then flowables second, then emulsifiable concentrates last. After thoroughly mixing, let this mixture stand for 5 minutes. If the combination remains mixed or can readily be remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

Application Instructions

Product can be applied to bare soil with most types of pesticides and nutrients prior to planting, at planting, at transplant, in- season, pre- and post-harvest. Apply with a minimum of 10-30 gallons of water per acre to ensure complete coverage.

Application to field soils at planting: Apply 1 pint of product per acre. It is recommended to apply via broadcast with 40-100 gallons of water per acre. However, applications can be made by following methods:

Drenching, drip (trickle) or sprinkler application.

Surface spray with 20-40 gallons water per acre followed by overhead irrigation. Use enough irrigation water to wet the soil into the root zone.

Pre-plant applications may be either broadcast over an entire field or concentrated (banded) into planting rows. Bioactivity of product is greatest at soil temperatures between 70°F and 90°F.

Second application to field soils, as a foliar, in season: Apply 1 pint of product per acre. It is recommended to apply via broadcast with 40–100 gallons of water per acre. However, applications can be made by following methods:

Drenching, drip (trickle) or sprinkler application.

Surface spray with 20-40 gallons water per acre followed by overhead irrigation. Use enough irrigation water to wet the soil into the root zone.

Post-plant applications may be either broadcast over an entire field or concentrated (banded) into planting rows. Bioactivity of product is greatest at soil temperatures between 70°F and 90°F.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Storage: Store in a cool dry place. Avoid freezing.

Disposal: To avoid wastes, use all material by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.