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## PRODUCT DATA SHEET

### Decco Salt No.19 99.5% TBZ (Thiabendazole) Fungicide

#### DESCRIPTION

This product is a fungicide used for controlling Penicillium molds of citrus and pomes fruit. The fungicide is also used to control several fungal decay organisms in bananas, mangos, and papayas. The active ingredient is Thiabendazole (TBZ).

Decco Salt No. 19 may be mixed with water for application by spray or drench or may be incorporated into an FDA-approved food grade fruit coating. Decco Salt No. 19 is available in different packages.

#### DIRECTIONS FOR USE

The water-soluble bags should be added to the aqueous system directly (unopened), e.g. the mix tank. After removing the required number of bags from the drum, retie the outer poly liner and replace the container lid.

#### **Citrus:**

With Citrus Lustr Waxes: Use one bag of Decco Salt No. 19 (575 grams) for each 55 gallons of ready-to-use pack-out wax. This usage corresponds to about 2700 ppm of TBZ in wax. Keep the mixture under constant mechanical agitation.

For an adequate sporulation control, use two bags of Decco Salt N. 19 in 60 gallons of wax to give about 5000 ppm of active TBZ. Apply one gallon of this wax/fungicide mixture to 8-10,000 lbs of citrus using spray or drip nozzle applicator.

For Citrus Storage Wax: A suitable quantity of concentrated wax must be properly diluted prior to addition of Decco Salt No. 19. Use one bag (575 grams) for each 55 gallons of diluted material for spraying on fresh citrus going into storage. Use of 2,4-D ester at label recommended level is compatible with Decco Salt No. 19.

For Aqueous Spray, Prior to Application of a Pack-out Wax: Dilute one bag (575 grams) in 75 gallons of water to give about 2000 ppm of TBZ.

For Citrus Bin Drencher: Dilute one bag (575 grams) in 150 gallons of water for a concentration of about 1000 ppm TBZ. The drenching of citrus in bins should continue for about three minutes. Use of a suitable wetting agent in preparing slurry is recommended. Use one gallon of liquid for spraying 1500 to 2000 pounds of citrus or drench about 30 bins per 100 gallons of liquid. Avoid excessive foaming; use of antifoam is recommended when foaming occurs.

**Pomes Fruit:** Decco Salt No. 19 can be used as an aqueous spray dip or drench on apples and pears. Use one bag of Decco Salt No. 19 (575 grams) for every 300 gallons of water to give a final concentration of about 500 ppm of TBZ. Two bags of Decco Salt No. 19 can also be used for every 300 gallons of water for treatment concentrations of about 1,000 ppm. When this higher concentration is used, treat only once before or after storage. Do not treat fruit for more than three minutes. Keep the mixture under constant mechanical agitation. Use of a suitable wetting agent in preparation of slurry is recommended. Replace with fresh solution after treating 30 bins for every 100 gallons liquid. For use in waxes, follow citrus instructions.

**Bananas:** Use 200 ppm of TBZ to dip treat bananas after they have passed through the latex removal operation. Use one bag with 750 gallons of fruit coating mixture. Drain and air-dry the fruit thoroughly.

**Mangos and Papayas:** Use one bag with 75 gallons of diluted fruit coating (2000 ppm) suitable for use on papayas and mangos. Generally, 15 gallons of concentrated wax (Decco Lustr 261 or 202) are diluted with 60 gallons of soft water prior to use. Spray one gallon of diluted material over a brush bed to 3000 to 5000 pounds of fresh clean fruit. Keep the mixture under constant mechanical agitation. For a dip application, do not use more than 2000 ppm of TBZ and do not exceed a dip treatment of more than 30 seconds. Allow ample draining and ambient air-drying prior to final packaging. For high decay potential use 4000 ppm of TBZ (two charge bags per 75 gallons). If an aqueous dip or spray is used without any fruit coating, use of a suitable wetting agent is recommended.

**Carrots:** Dip carrots before storage, for 5-10 seconds in a suspension containing one bag (575 g) of Decco Salt No. 19 per 100 gallons of water. Replenish the suspension when the volume is too low or when it becomes dirty.

The run-off and wastes from the dipping operation should not be discarded in a drainage, which could contaminate public water systems.

**Potatoes:** Mist unwashed tubers on a conveyer line with tumbling action, entering storage with 5.67 grams of Decco Salt No. 19 to each 2000 lbs of potatoes in sufficient water for complete coverage. If additional treatment is necessary before shipping, mist the tubers at the same rate or dip the tubers for 20 seconds in a solution containing 5.67 grams of Decco Salt No. 19 per gallon of water. Use of Decco 276 EC at label recommended rate is compatible with Decco Salt No. 19.

Seed potatoes should be treated before cutting. Do not use Decco 276 EC on seed potatoes.

### **COMPOSITION**

The active ingredient is 2-(4-thiazolyl)-benzimidazole 99.5%, commonly known as Thiabendazole or TBZ. The product requires wetting or emulsifying agents in water to disperse the fine powder evenly on the surface of treated fruit. Most commercial fruit coatings contain adequate surfactants for this purpose.

EPA Registration No. 2792-50.

### **PRECAUTIONS AND STORAGE INSTRUCTIONS**

Store in a cool dry place. Outer package requires no special disposal. Inner poly liner should be disposed of according to local regulations.

See label for precautions and additional storage directions.

### **PHYSICAL PROPERTIES**

Appearance: Beige or off-white colored fine powder  
Bulk density: 30.5 pounds per cubic foot

**SHIPPING CLASSIFICATION:** Agricultural fungicide, powder, NOI.

(Pd019)

Nov-03