

88633-3

8/26/2014

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Chemical Safety and Pollution Prevention
Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, DC 20460

EPA Reg. Number:

Date of Issuance:

88633-3

AUG 26 2014

Term of Issuance:

Conditional

Name of Pesticide Product:

**Copper Sulfate
Pentahydrate**

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Delta Agro Chemicals
Road 6 No 15 A
Maddi, Cairo, Egypt

Mailed to:

Connie Welch
Agent of Delta Agro Chemicals
toXcel Toxicology & Regulatory Affairs
7140 Heritage Village Plaza
Gainesville, VA 20155

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The basic formulation CSF dated April 9, 2014 of the product referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable. The basic CSF will be added to your file.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

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Signature of Approving Official:

Date:

AUG 26 2014

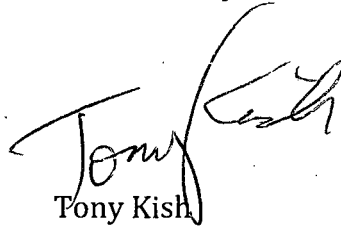
Tony Kish, Product Manager (22)
Fungicide Branch/Registration Division/OPP/OCSPP (7504P)

1. You must submit and/or cite all data required for registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following change to the label:
 - a. Change the product registration number to "EPA Reg. No. 88633-3"
3. Submit one copy of the revised final printed label for the record before the product is released for shipment.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action, including, among other things, cancellation under FIFRA section 6(e). Be aware that proposed copper sulfate pentahydrate data requirements have been identified in a Generic Data Call In (GDCI-024401-12268). For more information on these proposed data requirements, see this weblink---

<http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OPP-2010-0212-0031>

A copy of the label stamped "Accepted" is enclosed for your records.



Tony Kish
Product Manager (22)
Fungicide Branch
Registration Division (7504P)

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COPPER SULFATE PENTAHYDRATE

Active Ingredient:

Copper Sulfate Pentahydrate* 98%
CAS No. 7758-99-8

Other Ingredients: 2%

Total Ingredients: 100%

*Copper as metallic.....24.9%

DANGER - PELIGRO

KEEP OUT OF REACH OF CHILDREN

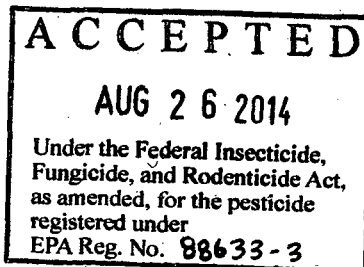
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID
If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.
If on Skin of Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Delta Agro Chemicals
Road 6 No. 15 A, Maadi,
Cairo, Egypt

EPA Reg. No. 88633-
EPA Est. No. 88633-EGY-001

Net Contents: _____



Lot Number: _____

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through the skin. Do not get in eyes or on clothing. Wear protective eyewear (goggles, safety glasses, or face shield), long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves (made of any waterproof material, selection category A). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

For applications in waters destined for use as drinking water, those waters must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in these waters

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators and other handlers must wear the following:

- Long-sleeved shirt
- Long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear such as goggles or face shield

Some materials that are chemical-resistant to this product are polyvinyl chloride, nitrile rubber, or butyl rubber. If you want more options, follow the instructions for category A on an EPA chemical resistance category section chart. Discard clothing and other absorbent materials that have been drenched or heavily contaminated by this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. IF no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARD

For direct aquatic uses: This pesticide is toxic to fish and aquatic invertebrates. Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State or local agency with primary

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responsibility for regulating pesticides before applying to public waters, to determine if a permit is required.

Certain water conditions including low pH (≤ 6.5); low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organisms.

For terrestrial uses: This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS:

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirement for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It also contains specific requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard.

Do not enter or allow worker entry into treated areas during the Restricted-Entry Interval (REI) of 48 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear: Coveralls, shoes plus socks, chemical-resistant gloves made of any waterproof material, and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard for Agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter treated areas until sprays have dried.

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CONTROL OF ALGAE AND TADPOLE SHRIMP

(*Triops longicaudatus*) IN RICE FIELDS (Domestic and Wild)

To Control Tadpole Shrimp: Apply this product not to exceed 10 parts per million (ppm) per acre (equivalent to 2.5 ppm of copper per acre) to the flooded fields anytime the pest appears between planting time and until the seedlings are rooted and have emerged through the water. The use rate per acre should be determined by the water depth and flow.

To Control Algae: Apply this product not to exceed 4 ppm (equivalent to 1 ppm of copper per acre), either as a surface spray in water or crystals when algae have formed on the soil surface in the flooded field but prior to rising to the water surface.

Use restrictions: To control tadpole shrimp, the maximum application rate is 2.5 ppm of copper per acre per application (27.3 lbs of this product per acre-foot of water).

To control algae in rice fields, the maximum application rate is 1 ppm of copper per acre per application (10.9 lbs. of this product per acre-foot of water). Minimum retreatment interval is 14 days. No more than one-half of the water body may be treated at one time. If the treated water is to be used as source of potable water, the metallic copper concentration must not exceed 1 ppm.

SEWER TREATMENT FOR ROOT AND FUNGUS CONTROL

Roots of shrubbery and trees growing near sewer lines frequently penetrate sewer lines in search of moisture and nutrients causing tile breakage, gradual reduced flow, and sometimes complete stoppage. This product is effective in keeping sewer lines free of roots. It is safe for drain systems and does not harm outdoor shrubbery or trees. Do not apply into sink or tub drains as it will corrode these metal drains.

Use Restrictions: Do not apply more than 2 lbs of this product per acre per application. Do not apply more than 8 lbs of this product per acre per year. Minimum retreatment interval is 6 months. Maximum number of applications per calendar year is two.

State Law prohibits the use of this product in sewage systems in the State of CT and in the following nine counties in CA: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma.

For Partial Stoppage: Add 0.5 lbs of this product to sewer or drain and flush toward blockage with 5 gallons of water. Repeat at 6 month intervals to prevent growth of new roots.

For Complete Stoppage: Physically remove the root blockage and treat as "For Partial Stoppage".

For Household Sewer: Use 2 lbs of this product twice yearly in spring and early fall. Apply in toilet bowl near sewer line. Flush 0.5 lbs at a time or remove the cleanout plug and pour entire quantity directly into sewer line and flush with water.

If system is equipped with a septic tank, copper sulfate will be precipitated in the septic tank and little will pass into the absorption drain field. To treat drain field pipes, add 2 lbs of this product to distribution box located between the septic tank and the drain field. If distribution box does not have an opening, it would be advisable to install a cleanout plug opening into the outlet pipe from the septic tank leading to the drain field for effective root control in the drain field pipes.

NOTE: Laboratory studies have shown that copper sulfate added to an active 300 gallon septic tank at 2, 4, and 6 lbs per treatment temporarily reduced bacterial action, but it returned to normal 15 days after treatment. Trees and shrubbery growing near a treated line normally will have only a small portion of their roots in contact with the copper sulfate that primarily kills only those roots inside the pipe, thus, not affecting the growing plants.

FOR COMMERCIAL, INSTITUTIONAL AND MUNICIPAL USE

Sewers: Use 2 lbs of this product every 6 to 12 months, applied to each junction or terminal manhole.

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Storm Drains: Use 2 lbs of this product per drain per year. Apply during period of light flow. In dry weather, induce a flow with hose. If storm drains become almost plugged, repeat treatment at a minimum of 6 month intervals.

Sewer Pumps and Force Mains: Place 2 lbs of this product in a cloth bag at the storage wall inlet. Repeat as needed.

Use Restriction: Do not apply more than 2 lbs of this product per application. Do not apply more than 8 lbs of this product per year. Minimum retreatment interval is 6 months. Maximum number of applications per calendar year is two.

CONTROLLING WEEDS, ALGAE, AND MICROSCOPIC ORGANISMS IN IMPOUNDED WATER SOURCES (TANKS, RACEWAYS, LAKES, PONDS, RESERVOIRS), FISH HATCHERIES, AND CROP AND NON-CROP IRRIGATION CONVEYANCE SYSTEMS, DITCHES, CANALS AND LATERALS

Precautions concerning fish: The treatment of algae with this product can result in oxygen loss in the water from decomposition of dead algae. This can cause the fish to suffocate. Care should be taken when water temperature exceeds 85°F. At this water temperature, aquatic plants treated with copper sulfate decompose rapidly, causing an increase in oxygen depletion. Therefore, to minimize this hazard treat 1/3 to 1/2 of the water area in a single operation. Wait 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated water.

This product can be applied to impounded water by the following methods:

Application by dragging this product under water: Product is placed in burlap bags or baskets and dragged through the water by means of a boat. Begin treatment along the shoreline and proceed outward until 1/3 to 1/2 of the total area has been treated. The path of the boat should ensure a distribution that is even. In large lakes, the boat should move in parallel lines about 20 to 100 feet apart. Continue dragging until all of the weighed product is dissolved. Only treat 1/2 of the water area in a single operation

Application by spraying solution of this product on water surface: A solution can be made with this product which dissolves easily in water. While the volume per surface acre depends on the type of spray equipment being used, spray volume should be approximately 20 to 500 or more gallons per acre of surface water. This solution can then be sprayed on the pond or lake surface from a boat. When using this method, the wind direction is important as well as the operation of the boat. Do not endanger people or animals in the boat with the copper sulfate spray. Only treat 1/2 of the water area in a single operation

Application by injecting copper sulfate solution in water: A solution can be made with this product. This solution can then be injected into the water via a piping system. Only treat 1/2 of the water area in a single operation

Application by broadcasting dry copper sulfate crystal: Crystals may be broadcasted directly on the water surface from the shore or from a properly equipped boat. Crystals ranging from ± 10 mesh to 1/2 inch are preferred for this method of application. A specifically equipped air blower can be used to discharge these size crystals at a specific rate over the surface of the water. When using this method, the wind direction is an important factor. Do not use this method unless completely familiar with this type of application. Only treat 1/2 of the water area in a single operation

Application by spraying this product dry from airplanes and helicopters: Professional personnel licensed by the State Agricultural Service are allowed to apply this product in some states. Only treat 1/2 of the water area in a single operation

Note: If treated water is to be used as a source of potable water, the metallic residual must not exceed 1 ppm copper. This is equal to 10.9 lbs per acre-foot of water or 4 ppm of this product. Potable water sources treated with copper products may be used as drinking water only after proper additional potable water treatments.

HOW TO FIND THE POUNDS OF THIS PRODUCT TO ADD TO WATER

To find acre-feet of water in a body of water, measure the depth of the body of water in feet. Calculate the surface area in square feet, divided by 43,560 (square feet/acre) times the average depth in feet.

- 1 acre-foot of water = water measuring 208.7 feet long by 208.7 feet wide by 1 foot deep
- 1 acre-foot of water = 43,560 cubic feet of water
- 1 cubic foot of water = 62.4 lbs
- 1 acre-foot of water = (43,560)(62.4) = 2,720,000 lbs

COPPER SULFATE PENTAHYDRATE IN WATER

Pounds of Copper Sulfate Pentahydrate Per Acre-Foot of Water	Parts (by weight) Copper Sulfate Pentahydrate per Million Parts (by weight) of water	Parts (by weight) Copper per Million Parts (by weight) of water
0.67 lbs/acre-foot	= 0.25 ppm	= 0.0625 ppm
1.35 lbs/acre-foot	= 0.5 ppm	= 0.125 ppm
2.7 lbs/acre-foot	= 1 ppm	= 0.25 ppm
5.45 lbs/acre-foot	= 2 ppm	= 0.50 ppm
10.9 lbs/acre-foot	= 4 ppm	= 1.0 ppm
27.3 lbs/acre-foot	= 10 ppm	= 2.5 ppm

TREATMENT OF SOME ALGAE WITH COPPER SULFATE PENTAHYDRATE

A higher concentration is required if the water is hard. Consult with the State Fish and Game Agency before applying product in municipal waters.

Copper Sulfate Pentahydrate (ppm)			
0.25 to 0.50	0.50 to 1.00	1.00 to 1.50	1.50 to 2.00
Cyanophyceae (Blue-green)			
Anabaena Anacystis Aphanizomenon Gloeotrichia Gomphosphaeria Polycystis Rivularia	Cylindrospermum Oscillatoria plectonema	Nostoc Phormidium	Calothrix Symploca
Chlorophyceae (Green)			
Closterium Hydrodictyon Spirogyra Ulothrix	Botryococcus Cladophora Coelastrum Draparnaldia Enteromorpha Gloeocystis Microspora Tribonema Zygnema	Chlorella Crucigenia Desmidium* Golenkinia Oocystis Palmella Pithophora* Staurastrum Tetraedron	Ankistrodesmus Chara* Nitella* Scenedesmus
Diatomaceae (Diatoms)			
Asterionella	Gomphonema	Achnanthes	

Fragilaria Melosira* Navicula	Nitzschia Stephanodiscus Synedra Tabellaria	Cymbella Neidium	
Protozoa (Flagellates)			
Dinobyron Synura Uroglena*	Ceratium Cryptomonas Euglena Glenodinium Mallomonas	Chlamydomonas Haematococcus* Peridinium	Eudorina* Pandorina*
* NOT FOR USE IN CA			

Use Restrictions: Do not apply more than 10.9 lbs of this product (equivalent to 4 ppm of copper sulfate pentahydrate or 1 ppm of copper) per acre-foot of water per application. Minimum retreatment interval is 14 days. No more than one-half of the water body may be treated at one time.

If treated water is to be used as a source of potable water, the metallic copper concentration must not exceed 1 ppm and must receive additional potable water treatments before being used as drinking water.

TO CONTROL ALGAE AND WEEDS IN FLOWING WATER

To control Potamogeton pond weeds, leafy and Sago, in irrigation conveyance systems, use the continuous application method, selecting proper equipment to supply this product at 0.25 to 0.5 pounds per hour for each cubic foot per second of flow for 12 hours of each 24 hours. For best control, begin copper sulfate additions when water is first turned into system to be treated and continue throughout the irrigation season. Copper sulfate becomes less effective for mature plants. Copper sulfate becomes less effective as the bicarbonate alkalinity increases and is substantially reduced above 150 ppm alkalinity measured as CaCO₃. Mechanical or other means may then be required to remove excess growth.

To control algae and weeds in irrigation systems by "slug" method of addition, add 0.5 to 0.91 lbs for each cubic foot per second flow. Repeat every two weeks. A slug is required for every 5 to 30 miles of length depending on alkalinity of the water.

Use restriction: Do not apply more than 10.9 lbs of this product (equivalent to 4 ppm of copper sulfate pentahydrate or 1 ppm of copper) per acre-foot of water per application. Minimum retreatment interval is 14 days. No more than one-half of the water body may be treated at one time. If the treated water is to be used as a source of potable water, the metallic copper concentration must not exceed 1 ppm.

TO CONTROL ALGAE AND BACTERIAL ODOR IN SWIMMING POOLS

Apply 1 to 2 pounds of this product per 60,000 gallons (8,000 cubic feet) of water. This will result in a concentration of 0.5 to 1 ppm of dissolved copper. Dissolve the required amount of copper sulfate in a plastic container and pour the solution into the pool. Use the higher rate where visible algae are present. Using a copper test kit (this may be purchased at any pool supply store) check copper levels every 2 weeks. For maintenance dosages, use the lower rate to maintain a 0.7 to 1 ppm concentration. Repeat the lower rate to control the recurrence of algae and avoid the buildup of copper. This product may be used to help control pool odors and algae during the winter months. Apply the higher rate while the pool is not being used during the winter. Treated pool effluent should not be discharged where it will drain into lakes, streams, ponds or public water.

CONTROL OF ALGAE AND BACTERIAL ODOR IN SEWAGE LAGOONS AND PITS (Except California): Application rates may vary depending on amounts of organic matter in effluent stream or retention ponds. Directly apply 2 lbs of Copper Sulfate Pentahydrate in 60,000 gals (8,000 cubic feet) of effluent to yield 1 ppm of dissolved copper. Dosage levels may vary depending upon organic load. Maximum application rate is 4 ppm copper sulfate (1 ppm metallic copper). Minimum retreatment interval is 14 days.

Other Organic Sludges: The solution of crystals must be thoroughly mixed with sludge. Dissolve 2 lbs in 1-2 gals of water and apply to each 30,000 gals of sludge.

Useful formula for calculating water volume and flow rates:
Multiply the water volume in cubic feet times 7.5 to obtain gallons.

Note: 1 C.F.S.*/hour = 27,000 gallons
1 acre-foot = 326,000 gallons
*cubic foot per second

TO CONTROL ALGAE AND BACTERIAL ODOR IN WATERSCAPES. DECORATIVE POOLS AND FOUNTAINS

Apply in the spring or early summer when algae and bacteria first appear. The dosages are variable and depend upon algae/bacteria species, water hardness, water temperature, amount of algae and bacteria present as well as whether water is clear, turbid, flowing or static. Preferably, the water should be clear with temperatures above 60°F. Higher dosages are required at lower water temperatures, higher algae and bacteria concentrations and for hard waters. For each 7,500 gallons of water, dissolve 0.25 pound of this product in one gallon of water. Pour the solution into the water to be treated. Several application points speed up dispersal. Static water requires less chemical than does flowing water. Do not exceed 0.4 ppm copper (0.1 lbs of product per 7,500 gallons of water) if fish are present.

DIRECTIONS FOR USE IN CROPS

APPLES:

To Control Fire blight, mix 5 lbs of this product in 100 gallons of water, not to exceed 32.1 lbs of this product per acre per application during the fall/late dormant period or 24 lbs of this product per acre per application between silver tip and green tip. After silver tip, severe burn will occur on any exposed green tissue. Do not mix lime to make a Bordeaux spray for this treatment.

Use Restrictions:

The maximum annual application rate is 16 metallic copper (64.2 lbs of this product) per acre per year. For fall/late dormant use: The maximum application rate is 8 lbs metallic copper (32.1 lbs of this product) per acre per application. Only one application is permitted per season. For use between silver-tip and green-tip: The maximum application rate is 6 lbs metallic copper (24 lbs of this product) per acre per application. Only one application is permitted per season.

GRAPES (DORMANT):

Powdery mildew – apply in spring before bud-swell and before any green tissue is present. Use 4 to 8 lbs of this product per 100 gallons of water. Apply in a high volume spray of 300 gallons of water per acre. Direct spray to thoroughly wet the dormant vine, especially the bark of the trunk, head or cordons.

Use Restrictions: Do not apply more than 12 lbs of this product per acre per application. Do not apply more than 80.3 lbs of this product per acre per year. Minimum retreatment interval is 3 days.

POTATOES (Except CA):

To enhance vine-kill and suppress late blight, apply 10 lbs per acre in 10 to 100 gallons of water (ground equipment) or in 5 to 10 gallons (aerial equipment) with Diquat at vine-kill to enhance

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vine desiccation and suppress late blight. Additional applications can be made with Diquat if needed within 7 days of harvest. This product may be applied alone until harvest to suppress late blight. Note: This product can be mixed with Diquat for use on potatoes in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded.

Use Restrictions: Do not apply more than 10 lbs of this product per acre per application. Do not apply more than 100 lbs of this product per acre per year. Minimum retreatment interval is 5 days.

WALNUTS:

Walnut blight – Apply 15 lbs with 10 lbs of lime in 100 gallons of water not to exceed 16 lbs of this product per acre per application. Make application in early pre-bloom before catkin blooms are showing (10% to 20% pistillate) before or after rain. Use only if Bordeaux mixture has been shown to be non-phytotoxic in your area. If desired, add one-half gallon summer oil emulsion per 100 gallons of water. NOTE: Addition of summer oil emulsion to pre-bloom and early bloom sprays may result in plant injury.

Use Restrictions: Do not apply more than 16 lbs of this product per acre per application. Do not apply more than 128.5 lbs of this product per acre per year. Minimum retreatment interval is 7 days.

BORDEAUX SPRAY MIXTURE

Understanding Bordeaux Formulations: If the Bordeaux mixture instructions read 10-10-100, the first figure indicates the number of lbs of this product. The second figure is the lbs of hydrated lime and the third figure is the gallons of water to be used. Use as a full coverage spray to point of runoff.

Preparation of Bordeaux Spray Mixture: Fill a tank 1/4 full with water. With agitator running, add this product through a copper, bronze, stainless steel or plastic screen. Add water so the tank is 3/4 full. Mix in the hydrated lime through the screen and finish filling the tank with water.

USE DIRECTIONS FOR BORDEAUX MIXTURE

ALMOND, APRICOT, PEACH, NECTARINE: To control Shot hole fungus, prepare a 10-10-100 Bordeaux mixture. Apply as a dormant spray in late fall or early spring.

Use Restrictions: On Almonds, do not apply more than 32.1 lbs of this product per acre per application during the dormant period. On Apricot, Peach, and Nectarine, do not apply more than 32.1 lbs of this product per acre per application during the dormant/delayed dormant up to pink bud stage. Minimum retreatment interval is 7 days. Do not apply more than 72.2 lbs of this product per acre per year.

ALMOND, APRICOT, CHERRY, PEACH, NECTARINE, PLUM, PRUNE: To control Brown rot blossom blight, prepare a 10-10-100 Bordeaux mixture. Apply when buds begin to swell. Do not apply after the pink bud stage.

Use Restrictions: On Almonds do not apply more than 32.1 lbs of this product per acre per application during the dormant/late dormant period. On Apricot, Cherry, Peach, Nectarine, Plum, and Prunes, do not apply more than 32.1 lbs of this product per acre per application during the dormant/delayed dormant up to pink bud stage. Minimum retreatment interval is 7 days. Do not apply more than 72.2 lbs of this product per acre per year.

BULBS (EASTER LILY):

To control Botrytis blight, prepare a 10-10-100 Bordeaux mixture. Apply as a foliar spray to 1 acre. Apply for thorough coverage beginning at the first sign of disease and repeat at 7 to 10 day intervals. Use the shorter intervals during periods of frequent rains or when severe disease

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conditions persist. Avoid spray just before flower cutting season if residues are a problem. Do not apply more than 10 lbs (2.5 lbs metallic copper) per acre per application. Do not exceed 300 lbs (75 lbs metallic copper) per acre per year. Do not apply any additional copper pesticide to this land for 36 months.

BULBS (ALL OTHER ORNAMENTALS, TULIP, GLADIOLUS):

To control Botytis blight, prepare an 8-8-80 Bordeaux mixture and apply as a foliar spray to 1 acre. Apply for thorough coverage beginning at the first sign of disease and repeat as needed to control disease at 7 to 10 day intervals. Use the shorter intervals during periods of frequent rains or when severe disease conditions persist. Avoid spray just before flower cutting season if residues are a problem. Do not apply more than 8 lbs (2 lbs metallic copper) per acre per application. Minimum retreatment interval is 7 days. Do not exceed 80 lbs (20 lbs metallic copper) per acre per year.

CHERRY (SWEET):

To control Dead bud, Bacterial canker (*Pseudomonas syringae*), prepare a 12-12-100 Bordeaux. Apply at leaf fall and again in late winter before buds begin to swell. In wet cool Northwest U.S. winters, a third spray may be needed between the above sprays.

CHERRY (SOOR):

To control Leaf spot, prepare a 10-10-100 Bordeaux. Apply as a full coverage spray after petal fall or as recommended by the State Extension Service.

Use Restrictions (All cherries): Do not apply more than 32.1 lbs of this product per acre per application during the bloom/growing season. Minimum retreatment interval is 5 days. Do not apply more than 72.2 lbs of this product per acre per year.

CITRUS (GRAPEFRUIT, KUMQUAT, LEMON, LIME, ORANGE, PUMMELO, TANGELO, TANGERINE):

Use Precautions: Adding foliar nutritionals to spray mixtures containing this product or other products containing copper and applying to citrus during the post bloom period when young fruit is present may result in spray burn.

BACTERIAL BLAST: Prepare a 10-10-100 Bordeaux spray and apply a spray in late October to early November or before fall rains begin. Make a complete coverage spray using 10 to 25 gallons per mature tree.

Use Restrictions: Do not apply more than 12.5 lbs of this product per acre per application. Do not apply more than 50.6 lbs of this product per acre per year. Minimum retreatment interval is 7 days.

LEMON, ORANGE, GRAPEFRUIT: *Phytophthora brown rot* – Prepare a 3-4.5-100 Bordeaux mixture only where there is no history of copper injury or use a 3-2-6-100 (Zinc Sulfate-Copper Sulfate-Hydrated Lime-gallons of water) Bordeaux mixture. Spray 6 gallons on skirt of tree 3 to 4 feet height and 2 to 4 gallons on trunk and ground under tree. If *Phytophthora hibernalis* is present, use 10 to 25 gallons to completely cover each tree. Apply in November or December just before or after the first rain. In severe brown rot season, apply second application in January or February.

Use Restrictions: Do not apply more than 12.5 lbs of this product per acre per application. Do not apply more than 50.6 lbs of this product per acre per year. Minimum retreatment interval is 7 days.

LEMON, ORANGE, GRAPEFRUIT: *Septoria Fruit, Leaf Spot; Central California – Brown Rot, Zinc, Copper Deficiencies* - Prepare a 3-2-6-100 Bordeaux mixture (Zinc sulfate – Copper sulfate - Hydrated lime - gallons of water). Use 10 to 25 gallons to completely cover each tree. Apply in October, November or December before or just after first rain.

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Use Restriction: Do not apply more than 12.5 lbs of this product per acre per application. Do not apply more than 50.6 lbs of this product per acre per year. Minimum retreatment interval is 7 days.

GRAPE: To control Downy mildew, prepare a 2-6-100 Bordeaux mixture. Apply beginning when disease is detected. This mixture and its use will exhibit some phytotoxicity on most varieties.

Use Restrictions: Do not apply more than 12 lbs of this product per acre per application. Do not apply more than 80.3 lbs of this product per acre per year. Minimum retreatment interval is 3 days.

OLIVES: To control Olive leaf spot (Peacock spot), and Olive knot, prepare a 10-10-100 Bordeaux mixture. Apply in autumn before heavy winter rains to prevent peacock spot. In wet winters, a repeat spray may be needed in mid-winter. In areas with less than 10 inches of annual rainfall, a 5-5-100 Bordeaux may be used. To help protect against Olive knot, apply a 10-10-100 Bordeaux before heavy rains and again in the spring. Injury may occur in areas of less than 10 inches of rainfall.

Use Restrictions: Do not apply more than 24 lbs of this product per acre per application. Do not apply more than 72.2 lbs of this product per acre per year. Minimum retreatment interval is 30 days.

PEACH: To control Leaf curl, prepare a 10-10-100 Bordeaux mixture. Apply at leaf fall or as a dormant spray in late fall or early spring before buds begin to swell.

Use Restrictions: Do not apply more than 32.1 lbs of this product per acre per application during the dormant/late dormant up to pink bud stage. Minimum retreatment interval is 7 days. Do not apply more than 72.3 lbs of this product per acre per year.

CHEMIGATION INSTRUCTIONS

Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation system(s). Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential area, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses. Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period. At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol

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shall be the words "PESTICIDES IN IRRIGATION WATER". All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color that sharply contrasts with their immediate background. This sign is in addition to any sign posted to comply with the Worker Protection Standard.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS:

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into the reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

SPRINKLER CHEMIGATION:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. This pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

APPLICATION INSTRUCTIONS:

Do not apply when wind speed favors drift beyond the area intended for treatment. When mixing, fill nurse tank half full with water. Add Copper Sulfate Pentahydrate slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Stickers, spreaders, insecticides, nutrients, etc. should be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all products used in mixtures. Copper Sulfate Pentahydrate should be added through a traveling

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irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. Agitation is recommended.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original, tightly closed container in a secure dry area inaccessible to children.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles

When completely empty, offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY STATEMENT

Delta Agro Chemicals warrants that this product complies with the specifications expressed on the label. To the extent consistent with applicable law, Delta Agro Chemicals makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose.