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August 29, 1995

ACCEPTED
SEP - 5 1995
UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND ROBOTICIDE ACT
FOR ECONOMIC POISON REGISTER-
ED UNDER NO. 1812-314

BLUE VIKING®
Star Glow Powder
COPPER SULFATE PENTAHYDRATE

ACTIVE INGREDIENT

Copper Sulfate Pentahydrate 99%

INERT INGREDIENTS 1%

TOTAL 100%

COPPER AS METALLIC NOT LESS THAN 25.2%

KEEP OUT OF REACH OF CHILDREN
DANGER - PELIGRO

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).

See side panel for additional precautionary statements.

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

IF IN EYES: Flush with plenty of water. Call a physician.

IF SWALLOWED: Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate use of gastric lavage.

GRIFFIN CORPORATION
VALDOSTA, GA 31601

EPA REG. NO. 1812-314
EPA EST. NO. 45450-AZ-1

NET CONTENTS 50 LBS.

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
DANGER**

Corrosive. Causes irreversible eye damage. Causes severe skin irritation. Harmful if absorbed through the skin or inhaled. May cause skin sensitization reactions in certain individuals. Avoid contact with the skin, eyes, or clothing. Avoid breathing dust.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Direct application of copper sulfate pentahydrate to water may cause a significant reduction in populations of aquatic invertebrates, plants and fish. Do not treat more than one half of lake or pond at one time in order to avoid depletion of oxygen from decaying vegetation. Allow 1 to 2 weeks between treatment for oxygen levels to recover. Trout and other species of fish may be killed at application rates recommended on this label, especially in soft or acid waters. However, fish toxicity generally decreases when the hardness of water increases. Do not contaminate water by cleaning or disposal of waste. Consult your State Fish and Game Agency before applying this product to public waters. Permits may be required before treating such waters. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

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Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. For wood treatment uses do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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 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 requirements for protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required 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, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

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STORAGE AND DISPOSAL

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

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 DISPOSAL: Completely empty bag into application equipment. Then 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.

GENERAL DIRECTIONS

Do not apply this product through any type of irrigation system.

Use Blue Viking Star Glow Powder as noted below. When using Blue Viking Star Glow Powder to control algae, there are many factors to consider, water hardness, temperature of the water, kind and amount of vegetation to be controlled and the amount of water flow. Algae can be controlled more easily and effectively if treatment with copper sulfate pentahydrate is made soon after plant growth has started. Small amounts of copper sulfate pentahydrate can effectively control algae in water. However, if treatment is delayed until a large amount of algae is present, larger quantities of copper sulfate pentahydrate may be required. Control of algae in water systems is not always permanent. Usually algae is more difficult to control with copper sulfate pentahydrate when water temperatures are low. The dose rates recommended for Blue Viking Star Glow Powder are based on water temperatures of 60°F or above. Larger quantities of copper sulfate pentahydrate will also be required in hard water. Normally, larger quantities of copper sulfate pentahydrate will be required to kill algae in water which is flowing than in a body of stagnant water. If possible, curtail the flow of water before treatment and hold dormant for approximately three days after treatment or until the plants have begun to die. When preparing a copper sulfate pentahydrate solution in water, it is best that the mixing container be made of glass or plastic or if a metal container is used, that it be either painted, enameled, or copper-lined. The use of a galvanized container causes a chemical reaction to take place by which the copper displaces the galvanized coating of the container. It is usually best to treat algae on a sunny day when the heavy mats of filamentary algae are most likely to be floating on the surface where it can be sprayed directly. If there is some doubt about the concentration to apply, it is generally best to start with a lower concentration and to increase this concentration until the algae is killed.

Agricultural chemicals may perform in an unpredictable manner when tank mixed, especially where several products are involved. Reduced effect on pests or crop injury may occur. Unless recommended on this label or by a state/local expert, it is advisable to test for compatibility and tolerance to crop injury prior to full scale commercial utilization of a new tank mix or tank mixing should not be undertaken. This product may be reactive on metal and masonry surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.

CALCULATED FOR THE AMOUNT OF WATER IMPOUNDED AND FOR THE AMOUNT OF COPPER SULFATE PENTAHYDRATE TO BE USED

Calculate water volume as follows:

1. Obtain surface area by measuring of regular shaped ponds or mapping of irregular ponds or by reference to previously recorded engineering data or maps.
2. Calculate average depth by sounding in a regular pattern and taking the mean of these readings or by reference to previously obtained data.
3. Multiply surface area in feet by average depth in feet to obtain cubic feet of water volume.
4. Multiply surface area in acres by average depth in feet to obtain total acre-feet of water volume.

NOTE: If treated water is to be used as a source of potable water, the metallic copper residual must not exceed 1 ppm (4 ppm copper sulfate pentahydrate).

ALGAECIDE

Blue Viking Star Glow Powder can be used in Slow Moving or Quiescent Bodies of Water Including: Lakes; Potable Water Reservoirs; Golf, Farm, Fish and Fire Ponds; Fish Hatcheries; and Crop and Non-Crop Irrigation Conveyance Systems, Ditches, Canals and Laterals:

LAKES, POTABLE WATER RESERVOIRS; PONDS (Golf, Farm, Fish and Fire); FISH HATCHERIES; AND CROP AND NON-CROP IRRIGATION CONVEYANCE SYSTEMS, DITCHES, CANALS AND LATERALS - Blue Viking Star Glow Powder kills

Filamentous and Planktonic Algae in lake or pond water. Apply at a rate of 3-6 pounds per acre foot of water (0.27 ppm - 0.54 ppm (Cu) in the treated water). Apply as a uniform surface spray dissolved in at least 3-5 gallons of water using boat, plane or other pressurized spray device. Apply twice yearly or as needed. Determine the number of acre feet of water to be treated. An acre foot of water is equal to one acre of water one foot deep which equals 328,000 gallons or 2,720,000 pounds.

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CONTROL OF TADPOLE SHRIMP

Blue Viking Star Glow Powder is recommended for the control of tadpole shrimp in rice fields. Blue Viking Star Glow Powder should be applied at a rate of 5 to 10 pounds per acre either dry or dissolved in water using boat, plane or other professional device. Use at the first indication of infestation after the field has been flooded and continue as needed.

SEWER TREATMENT - ROOT DESTROYER

For partial stoppage add 0.5 pound of Blue Viking Star Glow Powder 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 repeat as above.

WOOD TREATMENT (green, peeled posts)

Fungus, Decay, Rot: Prepare a solution of 18 pounds of sodium chromate in each 26 gallons of water to be used and a separate second solution of 18 pounds of copper sulfate pentahydrate in each 24 gallons of water to be used; soak the peeled, green posts, butt end down first in the copper sulfate solution for 3 days, then butt end down in the sodium chromate solution for 2 days, and finally turn the post upside down in the sodium chromate solution for 1 additional day, remove and rinse posts with clear water.

BORDEAUX SPRAY MIXTURE

How to Understand Bordeaux Formulations: If the Bordeaux Mixture instructions reads 10-10-100, the first figure means the number of pounds of copper sulfate pentahydrate. The second figure means the pounds of hydrated spray lime, and the third figure, the gallons of water to be used. Use as a full coverage spray to runoff.

How to Prepare a Bordeaux Mixture: To prepare a Bordeaux mixture, fill a tank with water, one quarter full. Then with agitator running, mix in Blue Viking Star Glow Powder through a copper, bronze, stainless steel or plastic screen. Add water so the tank is three quarters full. Mix in the hydrated spray lime through the screen and finish filling the tank with water.

CROP USE RECOMMENDATIONS

ALMOND, APRICOT, PEACH, NECTARINE: Shot Hole Fungus - Prepare a 10-10-100 Bordeaux and apply as a dormant spray in late fall or early spring.

ALMOND, APRICOT, CHERRY, PEACH, NECTARINE, PLUM, PRUNE: Brown Rot Blossom Blight - Prepare a 10-10-100 Bordeaux and apply when buds begin to swell.

SOUR CHERRY: 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.

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WALNUTS: Walnut Blight - Apply 15 pounds with 10 pounds of lime in 100 gallons of water. Make application in early pre-bloom before catkin blooms are showing (10-20% 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. **PRECAUTION:** Addition of summer oil emulsion to pre-bloom and early bloom sprays may result in plant injury.

CITRUS

Blue Viking Star Glow Powder may be mixed with dry foliar nutritionals (micronutrients) to create "Shot Bag" mixes to meet the various nutritional requirements of citrus and provide disease protection as described on this label. Blue Viking Star Glow Powder per acre rates in these mixes must not exceed the maximum recommended label rates for disease control.

NOTE: Adding foliar nutritionals to spray mixtures containing Blue Viking Star Glow Powder or other products and applying to citrus during the post bloom period when young fruit is present may result in spray burn.

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

LEMON, ORANGE, GRAPEFRUIT: Septoria Fruit and Leaf Spot.
Central California - Brown Rot and Zinc and Copper Deficiencies - Prepare a 3-2-6-100 Bordeaux and use 10 to 25 gallons to completely cover each tree. Apply in October, November or December before or just after first rain.

POTATO VINE KILL

Apply 10 lb/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 vine desiccation and suppress late blight. Additional applications can be made with Diquat if needed to within 7 days of harvest. Blue Viking Star Glow Powder 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.

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WARRANTY STATEMENT

GRIFFIN warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of GRIFFIN. In no case shall GRIFFIN be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. GRIFFIN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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