

1386-304

7/12/2010

1/10



U S ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7504P)  
Ariel Rios Building  
1200 Pennsylvania Ave NW  
Washington D C 20460

EPA Reg Number  
1386 304

Date of Issuance  
**JUL 12 2010**

NOTICE OF PESTICIDE  
       Registration  
  X   Reregistration  
(under FIFRA as amended)

Term of Issuance  
Name of Pesticide Product  
Diamond Copper Sulphate  
Bluestone

Name and Address of Registrant (include ZIP Code)  
Universal Cooperatives Inc  
1300 Corporate Center Curve  
Eagan MN 55121

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/reregistered 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

This product is reregistered in accordance with FIFRA provided that you

1) Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data

Signature of Approving Official  
  
Tony Kish  
Product Manager 22  
Fungicide Branch  
Registration Division (7504P)

Date  
**JUL 12 2010**

EPA Reg 1386 304  
Page 2

2) You must change the EPA Reg # to 1386 304 You must list the complete address of the Company on the label You must add CAS No 7758 99 8 next to copper sulphate pentahydrate in the ingredient section You must add this product contains 0 252 pounds of copper as metallic per pound of product You must also change the net contents to amount in lbs since this product is a solid not a liquid

3) Based on toxicity ranking per the acute toxicity review the First Aid statements should be placed on the label in the following order

- IF IN EYES
- IF SWALLOWED
- IF ON SKIN OR CLOTHING
- IF INHALED

4) A Note to Physician must be added to the label and must/should read

Note to Physician  
Probable mucosal damage may contraindicate the use of gastric lavage

5) Per the acute toxicity review the Hazards to Humans and Domestic Animals must be revised to read

DANGER  
Corrosive Causes irreversible eye damage May be fatal if swallowed Do not get in eyes or on clothing

6) Per the acute toxicity review and the RED the handler PPE section must be revised to read

Mixers loaders applicators and other handlers must wear the following  
Long sleeved shirt and long pants  
Shoes and socks and  
Goggles and face shield

7) The Environmental Hazards text currently on the label must be revised to read

For terrestrial use  
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 washwaters or rinsate

For Aquatic use

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

Certain water conditions including low pH ( $\leq 6.5$ ) 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

8) Per the RED the early entry PPE in the Agricultural Use Requirements box must be revised to read

- Coveralls
- Shoes plus socks
- Chemical resistant gloves made of any waterproof material and
- Protective eyewear

9) The text Protective clothing including goggles should be worn appearing in the Non Agricultural Use Requirements box must be deleted from the label

10) To the Storage and Disposal section change Storage to Pesticide Storage Update the Container Disposal section to comply with PR Notice 2007 4

11) Spray drift text must be added to the label and must read

Spray Drift Management

A variety of factors including weather conditions (e.g. wind direction wind speed temperature relative humidity) and the method of application (e.g. ground aerial airblast chemigation) can influence pesticide drift The applicator must evaluate all factors and make appropriate adjustments when applying this product

**Droplet Size**

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles

**Wind Speed**

Do not apply at wind speeds greater than 15 mph Only apply this product if the wind direction favors on target deposition (approximately 3 to 10 mph) and there are no sensitive areas within 250 feet downwind

**Temperature Inversions**

If applying at wind speeds less than 3 mph the applicator must determine if a) conditions of temperature inversion exist or b) stable atmospheric conditions exist at or below nozzle height Do not make applications into areas of temperature inversions or stable atmospheric conditions

**Other State and Local Requirements**

Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds Where states have more stringent regulations they must be observed

**Equipment**

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates

**For aerial application**

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter Release spray at the lowest height consistent with efficacy and flight safety Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety

When applications are made with a crosswind the swath must be displaced downwind The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind

**For groundboom application**

Do not apply with a nozzle height greater than 4 feet above the crop canopy

12) To the Algae in Farm Ponds section change use 2 3/4 to 5 1/2 pounds per acre foot of water to use 10.8 pounds of product per acre foot of water (this is the amount of product equal to 1 ppm of metallic copper) Change equivalent to 1 to 2 ppm to equivalent to 1 ppm The RED limits the use to 1 ppm Delete Use the higher rate only for hard water and dense growth of algae

13) You must either delete the Tobacco Plant Beds section or change the application rate to Use 0.16 lbs of product/100 sq yards (equivalent to 2 lbs metallic copper/acre) per application

with a maximum total yearly application of 0 656 lbs of product/100 sq yards (equivalent to 8 lbs metallic copper/acre)

14) You must either delete the Stone Fruits section or change the application rate to Use 31 7 pounds of product/acre (equivalent to 8 pounds of metallic copper/acre) per application (Dormant late dormant up to pink bud stage) Use 6 0 pounds of product/acre (equivalent to 1 5 pounds of metallic copper/acre) per application (bloom growing season) Use up to a maximum of 71 4 pounds of product/acre (equivalent to 18 pounds of metallic copper/acre) per year (all stages) The use directions currently on the label aren t acceptable

15) To the Warranty section add to the extent consistent with applicable law in front of no other express warranty and buyers and all users are responsible

16) On the front page change inert ingredients to other ingredients

A stamped copy of the label is enclosed for your records You must submit one copy of the final printed label before you release the product for shipment Products shipped after 12 months from the date of this letter or the next round of printing must bear the new revised label If these EPA conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA Your release for shipment of the product constitutes acceptance of these conditions This label supersedes all other previously accepted labels If you have any questions please call Erik Kraft at 703 308 9358 or email at Kraft Erik@epa gov

Enclosure Use Table  
Product Chemistry Review  
Acute Toxicology Review

6/10

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
JUL 12 2010

# DIAMOND COPPER SULPHATE

Under the Federal Insecticide  
Fungicide, and Rodenticide Act  
as amended for the pesticide  
registered under EPA Reg No

1386 304

**Bluestone**

**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 this label find someone to explain it to you in detail)

REFER TO SIDE AND BACK PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS FIRST  
AID STATEMENT WORKER PROTECTION STATEMENTS DIRECTIONS FOR USE STORAGE AND DISPOSAL  
INSTRUCTIONS AND WARRANTY AND LIMITATION OF DAMAGES

**ACTIVE INGREDIENT**

Copper sulphate pentahydrate

99%

**INERT INGREDIENTS**

1%

Total

100 0%

Copper as metallic - 25.2%

CAS No 7758 98 7 water and 7732 18 5

Net Contents 2 1/2 Gallons

EPA Reg No 1386-43  
EPA Est No 1386 OH 1

UNIVERSAL COOPERATIVES INC EAGAN MN 55121

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

Corrosive Causes irreversible eye damage and skin irritation Harmful if swallowed absorbed through the skin or inhaled May cause skin sensitization reactions in certain individuals Do not get in eyes on skin or on clothing

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and Other Handlers Must Wear**

- Coveralls over long sleeved shirt and long pants
- Waterproof gloves
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical resistant headgear for overhead exposure
- Chemical resistant apron when cleaning equipment mixing or loading

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 exist use detergent and hot water Keep and wash PPE separately from other laundry

**Engineering Controls Statements** When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(4 6)] the handler PPE requirements may be reduced or modified as specified in the WPS

**USER SAFETY RECOMMENDATIONS**

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

**FIRST AID**

<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice</li> <li>• Have person sip a glass of water if able to swallow</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
<b>If On Skin Or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<b>If Inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air</li> <li>• If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>
<b>If In Eyes</b>	<ul style="list-style-type: none"> <li>• 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</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>

Have the product container or label with you when calling a poison control center or doctor or going for treatment For 24 Hour Medical Emergency Assistance (Human or Animal) call 1 800 308 1241 or for Chemical Emergency Assistance (Spill Leak Fire or Accident) call CHEMTREC AT 1 800 424 9300

## ENVIRONMENTAL HAZARDS

**AQUATIC USES** This pesticide is toxic to fish. 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 responsibility for regulating pesticides before applying to public waters to determine if a permit is required. 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 of equipment or disposal of wastes.

**Precaution Concerning Fish** 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.

**TERRESTRIAL USES** This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. This product may contaminate water through runoff. 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 contaminate water when disposing of equipment washwaters 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. Do not allow adults, children, or pets to enter the treated area until sprays have dried.

### 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 the 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 interval. 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 48 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 soil or water, is:

- Coveralls over long sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- Chemical resistant footwear plus socks
- Chemical resistant headgear if overhead exposure
- Protective eyewear and
- Chemical resistant apron when mixing, loading, cleaning equipment or spills, or otherwise exposed to the concentrate

9/10

**NON AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product 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

Protective clothing including goggles should be worn Do not enter or allow others to enter until sprays have dried

**ALGAE IN FARM PONDS** – Measure the area and depth carefully to determine the acre feet of water in the pond to be treated (pond surface area in acres multiplied by the average depth in feet) No more than 1/2 of the water body may be treated at one time

To control filamentous algae ( pond scum ) and single celled plankton algae ( water bloom ) in still ponds use 2 3/4 to 5 1/2 pounds per acre foot of water (325 850 gallons) equivalent to 1 to 2 ppm of Copper Sulphate Pentahydrate depending upon the hardness of the water and density of algal growth Use the higher rate only for hard water and dense growth of algae Dissolve the required quantity of Copper Sulphate (determined from the calculation of acre feet of water) in the amount of water needed for uniformly spraying over the surface of the water particularly above areas of algal growth Apply when the algae first appear usually in early summer after water temperature is 60 F or above If it is necessary to treat filamentous algae after it has become abundant apply during an afternoon following a sunny morning since under these conditions a large amount of the algal mat is likely to be floating at the surface where it can be sprayed directly The minimum retreatment interval is 14 days

In regions where ponds freeze in winter algae should be controlled 6 to 8 weeks before the time ice formation is expected to prevent the occurrence of masses of decaying algae under an ice cover

If the pond has a water supply that can be controlled the water should be shut off or diverted before beginning to treat each section About 3 to 4 days after treatment or when the plants have started to die the water may be turned on again

**THE USER IS RESPONSIBLE FOR ADEQUATE AND PROPER NOTIFICATION OF ALL PERSONS CONCERNED AND THE OBTAINING OF A PERMIT, IF REQUIRED PRIOR TO THE TREATMENT OF A POND OR PONDS WITH THIS MATERIAL**

**BEFORE USING THIS PRODUCT TO TREAT PONDS, CONSULT PROPER STATE AUTHORITY, SUCH AS FISHERIES COMMISSION OR CONSERVATION DEPARTMENT, AND OBTAIN A PERMIT IF REQUIRED THE USER IS RESPONSIBLE FOR ADEQUATE AND PROPER NOTIFICATION OF ALL PERSONS CONCERNED AND THE OBTAINING OF A PERMIT IF REQUIRED, PRIOR TO THE TREATMENT OF A POND OR PONDS WITH THIS MATERIAL**

**TOBACCO PLANT BEDS** To control wildfire first make a Bordeaux mixture by dissolving 3 pounds of Copper Sulphate in 4 gallons of water Then mix 4 pounds of hydrated lime in another container with 4 gallons of water Fill a 50 gallon barrel about three fourths full with water and add the two solutions first the lime suspension and then the Copper Sulphate solution Stir vigorously and add enough water to make 50 gallons of Bordeaux mixture This Bordeaux mixture should be applied (a sprinkling can may be used) at the rate of 25 gallons per 100 square yards of bed Applications should begin immediately after the plants are up A second application should be made 10 days later Usually a third application should be made 10 days after the second application The minimum retreatment interval is 10 days

**STONE FRUITS** A 5 5 50 Bordeaux mixture 5 pounds of Copper Sulphate and 5 pounds of hydrated lime in 50 gallons of water may be used to control shot hole fungus on apricots peaches and nectarines and to control brown rot on apricots cherries peaches nectarines plums and prunes For shot hole fungus apply as a dormant spray in late fall or early spring For brown rot apply when buds begin to swell For other formulas applicable to specific conditions in your locality consult your agricultural extension recommendations For dormant late dormant

application the minimum retreatment interval is 7 days For bloom growing season application the minimum retreatment interval is 5 days

**DO NOT USE ON TENDER FOLIAGE, PARTICULARLY THAT OF PEACH, ALMOND, AND JAPANESE PLUM**

**STORAGE AND DISPOSAL**

**STORAGE** Store in original container 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

**IMPORTANT READ BEFORE USE**

Read the entire Directions For Use and Warranty and Limitation of Damages before using this product If terms are not acceptable return the unopened product container at once By using this product user or buyer accepts the following conditions and Warranty and Limitation of Damages

**WARRANTY AND LIMITATION OF DAMAGES**

Universal Crop Protection Alliance LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the complete Directions For Use label booklet ( Directions ) when used in accordance with those Directions under the conditions described therein **NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE** This warranty is also subject to the conditions and limitations stated herein

Buyer and all users shall promptly notify this Company of any claims whether based in contract negligence strict liability other tort or otherwise

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company including but not limited to incompatibility with products other than those set forth in the Directions application to or contact with desirable vegetation unusual weather weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied as well as weather conditions which are outside the application ranges set forth in the Directions application in any manner not explicitly set forth in the Directions moisture conditions outside the moisture range specified in the Directions or the presence of products other than those set forth in the Directions in or on the soil crop or treated vegetation

Upon opening and using this product buyer and all users are deemed to have accepted the terms of this Warranty and Limitation of Damages which may not be varied by any verbal or written agreement If terms are not acceptable return at once unopened