Pm 23

1278-5

MAY 2 2 1990

Mr. Food Harvie Pholps Dodge Refining Corporation P.O. Box 20001 El Daso, Texas 79996

Lear Mr. Harvie:

Subject: Label Amendment Copper Sulfate Instant EPA Registration Number 1278-5 Copper Sulfate Algicide - Herldeide EPA Registration Number 1278 B Your Submission Dated March 30, 1920

The labeling referred to above submitted March 20, 1990 (connection with registration under the Federal Insecticide. Fungicide and Rodenticide Act. as amended, is a ceptable provided you make the following changes:

- For 1278-5. On page 4 delete the word "most" from the sentence "...Triangle Brand Copper Sulfate Pontshydrate is a st effective in keeping sever lines free of roots." Because it is misleading.
- C. For 1278-6, on page 3 change "pesticide wastes are hazardous." to read "pesticide wastes are acutely hazardous." and on page 6, change 1.2 gallon summer oil emulaion to 1/2 gallon summer emulaion under Walnuts (Walnut Blight).
- 3. For 1278-8, on page 6, please change 10.8# per acrefoot to 10.64# per acrefoot under "If treated water is to be used as a source of potable water...". This will be consistent with the chartfound on the same page.

A stamped copy is enclosed of both labels for your records. Please submit three (3) copies of your final printed labeling for each product incorporating this amendment.

**DEPT ANALADIP COMM** Sincerely yours,

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			CONCURRENCES	C RE MILLE	
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SURNAME	Robbins		Acting Pr	oduct Manager (	
DATE	5/21/90		PUngiciak Registral	Herbicide Pren ion Division (R	Ch Verect
PA Form	1320-1 (12-70)		······································	OFF	ICIAL FILE COPY

•U.S. GPO : 1986-159-319

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(Circle Containing the following to dash line.)

Phelps Dodge Refining Corporation El Paso, Texas

Triangle Brand Copper Sulfate

(Copper Sulfate) INSTANT

NOT FOR MEDICINAL USE

Active ingredient: Copper sulfate pentahydrate\* ... 99.0% Inert ingredients:.... 1.0% \* Metallic Copper Equivalent ... 25.2%

KEEP OUT OF REACH OF CHILDREN HARMFUL IF TAKEN INTERNALLY

DANGER / PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no uste producto hasta que la etiqueta haya sido explicado ampliamente.

PRECAUTIONARY AND PRACTICAL TREATMENT STATEMENTS APPEAR ON THE BACK OF THIS PACKAGE.

Information for Right-to-Know States:

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Copper Sulfate pentahydrate: Sulfuric acid, copper(2+) salt(1:1)/ CAS Reg. No. 7758-98-7; Water /CAS Reg.No. 7732-18-5.

EPA REGISTRATION NO. 1278-5 EPA ESTABLISHMENT NO. 1278-TX-1

Net Weight 50 Lbs. - 22.68 Kg.

MANUFACTURED BY PHELPS DODGE REFINING CORPORATION EL PASO, TEXAS, 79398

Made in the United States of America.

ACCEPTED with COMMENTS in EPA Letter Dated:

MAY 2 2 1990

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1278-5

Page 2.

#### DANGER

#### PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este | producto hasta que la etiqueta haya sido explicada ampliamente.|

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Causes severe eye and skin irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing mist or dust and contact with skin, eyes, or clothing. Causes substantial but temporary eye injury. May cause skin sensitization reactions in certain individuals. Protective clothing, including goggles, should be worn. Wash hands, arms, and face thoroughly with soap and warm water after handling. Remove contaminated clothing and wash before reuse.

#### STATEMENT OF PRACTICAL TREATMENT

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. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate | the use of gastric lavage. Measures against circulatory shock, respiratory deprecaion and convulsions may be needed.

IF SPLASHED IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes, and get medical attention.

IF SPILLED ON SKIN: Remove contaminated clothes and shoes, immediately wash skin with soap and plenty of water, and get medical attention.

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

#### ENVIRONMENTAL HAZARDS

I This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water except as directed under the specific instructions section. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Direct application of copper sulfate 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 to avoid depletion of oxygen levels due to decaying vegetation. Allow one to two weeks between treatments for oxygen levels to recover.

#### Page 3.

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1 Trout and other species of fish may be killed at application 1 rates recommended on this label, especially in soft or acid 2 waters. However, fish toxicity generally decreases when the 3 hardness of water increases. Do not contaminate water by 4 cleaning of equipment or disposal of wastes. Consult your 5 State Fish and Game Agency before applying this product to 5 public waters. Permits may be required before treating such 6 waters.

#### STORAGE AND DISPOSAL

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

| STORAGE: Store unused product in original container only in a | cool, dry area out of reach of children and animals. If | container or bag is damaged, place the container or bag in a | plastic bag. Shovel any spills into plastic bags and seal | with tape.

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

| CONTAINER DISPOSAL: Do not reuse empty container. Completely | | empty liner by shaking and tapping sides and bottom to loosen | | clinging particles. Place the pesticide into application | | equipment. Then dispose of liner in a sanitary landfill or by | | incineration if allowed by State and local authorities. If | | burned, stay out of smoke.

RE-ENTRY STATEMENT

Do not enter treated area without protective clothing until sprays have dried or dusts have settled. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information, written or oral warnings must be given to workers who are expected to be in a treated area or in an area to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

Page 4

WARNING: AREA TREATED WITH TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE ON (date of application). DO NOT ENTER WITHOUT APPROPRIATE PROTECTIVE CLOTHING UNTIL SPRAYS HAVE DRIED OR DUSTS HAVE SETTLED. IN CASE OF ACCIDENTAL EXPOSURE, SEE THE STATEMENT FOR PRACTICAL TREATMENT ON THIS LABEL.

#### GENERAL INSTRUCTIONS

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

#### FEED ADDITIVE

PHELPS DODGE REFINING CORPORATION TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE is a valuable dietary supplement in mixed feeds for cattle, hogs, chickens and other agricultural animals. Consult your State Agricultural Experiment Station of State Extension Service for guidance in preparing dosages and formulas.

#### FERTILIZER ADDITIVE

PHELPS DODGE REFINING CORPORATION TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE is a valuable copper supplement in mixed | fertilizers and soil conditioners. Consult your State

| Agricultural Experiment Station or State Extension Service for | | guidance in preparing dosages and formulas. |

#### DIRECTIONS FOR USE AS A PESTICIDE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

SEWER TREATMENT FOR ROOT AND FUNGUS CONTROL

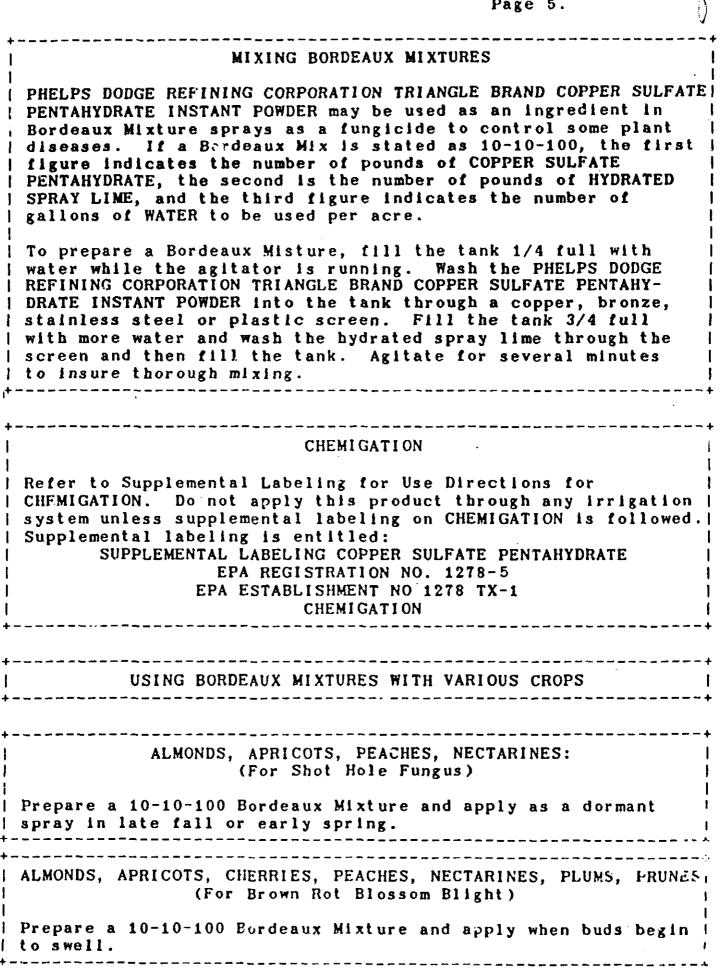
|PHELPS DODGE REFINING CORPORATION TRIANGLE BRAND COPPER SULFATE |PENTAHYDRATE is most effective in keeping sewer lines free of |roots.

 A. FOR PARTIAL STOPFAGE: Add 1/2 pound of PHELPS DODGE
 REFINING TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE to sewer or drain and flush toward blockage with 5 gallous of water. Repeat at 6 month intervals to prevent growth of new roots.

| B. FOR COMPLETE STOPPAGE: Physically remove the root | blockage and repeat as above.

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#### SOUR CHERRIES (Leaf Spot)

Prepare a 10-10-100 Bordeaux Mixture and apply as a full coverage spray after petal fall or as recommended by State Extension Service. LEMONS, ORANGES, GRAPEFRUIT (Phytophthora Brown Rot) | Prepare a 3-4-5-100 Bordeaux Mixture where there is no history| | of copper injury, or a 3-2-6-100 (Zinc Sulfate-Copper Sulfate-Hydrated Lime-Gallons of Water) Bordeaux Mixture. Spray 8 gallons on skirt of tree 3 to 4 feet high, and 2 to 4 gallons on trunk and ground under the 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 first rain. In severe Brown Rot season, apply second application in January or February. LEMONS, ORANGES, GRAPEFRUIT (Septoria Fruit & Leaf Spot [Central California]) (Brown Rot, Zinc and Copper Deficiencies) | Prepare a 3-2-6-100 Bordeaux Mixture (Zinc Sulfate-Copper | Sulfate-Hydrated Lime-Gallons of Water) and use 10 to 15 gallons to cover completely each tree. Apply in October, November or December just before or after first rain. WALNUTS (Walnut Blight) Apply 15 pounds Copper Sulfate with 10 pounds of Hydrated Lime in 100 gallons of water plus 1.2 gallon summer oil | emulsion. Apply in early pre-bloom and at 10% to 20% | pistillate (not when catkin blooms are showing) just before | or after rain. Use only if Bordeaux Mixture has been proven to be non-phytotoxic in your area. **OLIVES** (Peacock Spot, Olive Knot) | Prepare a 10-10-100 Bordeaux Mixture and apply in autumn | before heavy winter rains to prevent Peacock Spot. In areas | of less than 10 inches rainfall, use a 5-10-100 Bordeaux | Mixture. To help protect against Olive Knot apply a 10-10-100 | Bordeaux Mixture before heavy rains and again in the spring. | Injury may occur in areas of less than 10 inches of rainfeil.

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#### LILLIES (Botrytis Blight)

| Prepare a 10-10-100 Bordeaux Mixture and apply at beginning | of emergence. Repeat at 7 to 10 day intervals. Apply more | often during frequent rainfalls or when severe diseaseee | conditions occur.

#### NOTICE TO BUYER

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk or use and/or handling of this material when such use and/or handling is contrary to label instructions.

 IP.O.T.Hazard Class
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 ORM-E |

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NOT REVIEWED In Accordance with PR Notice 82-2. Based on Draft Labeling Dated

# INSTANT

COPPER

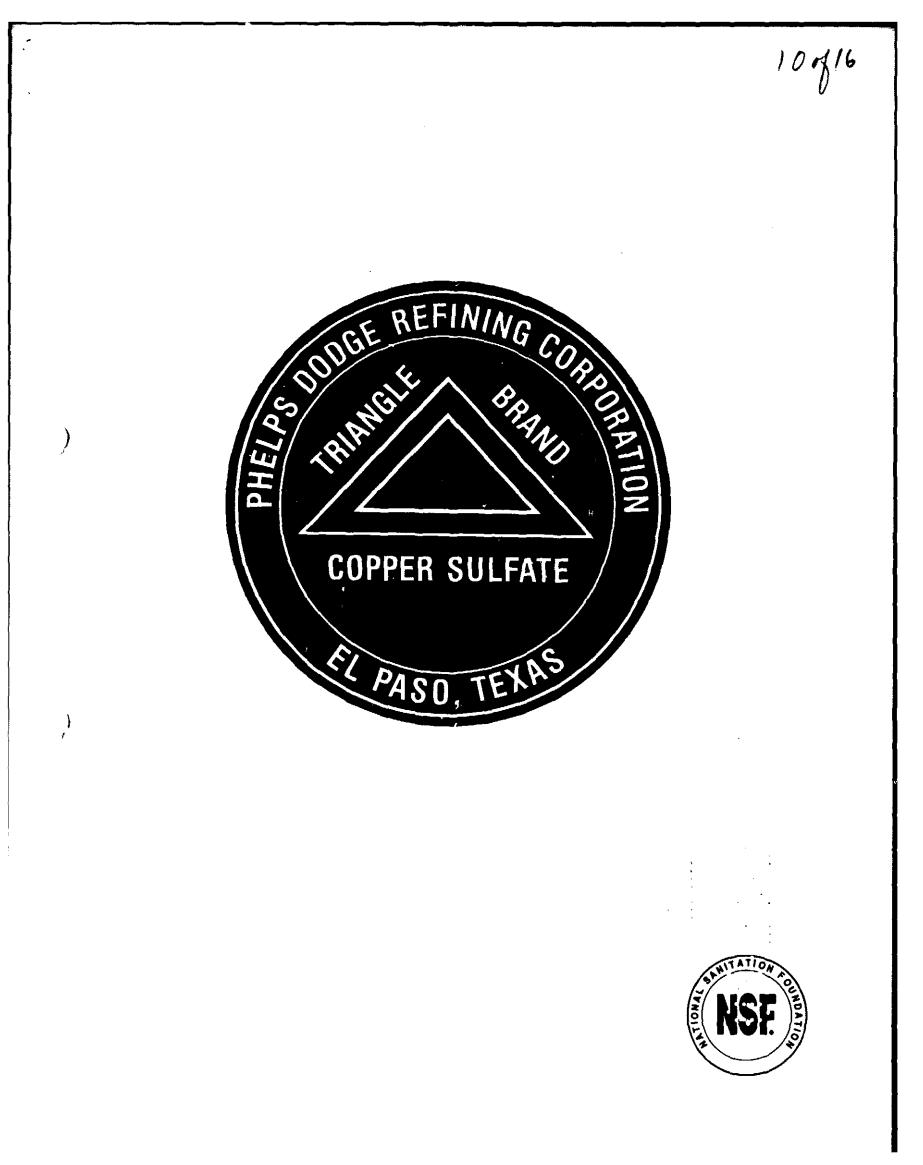
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SULFATE PENTAHYDRATE EPA REGISTRATION NO. 1278-5 EPA ESTABLISMENT NO. 1278-TX-1

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(Circle Containing the following to dash line.)

#### Phelps Dodge Refining Corporation El Paso, Texas

#### **Triangle Brand Copper Sulfate**

# (Copper Sulfate) INSTANT

# NOT FOR MEDICINAL USE

Active ingredient: Copper sulfate pentahydrate *	
inert ingredients:	1.0%
*Metallic Copper Equivalent	

# KEEP OUT OF REACH OF CHILDREN HARMFUL IF TAKEN INTERNALLY

# **DANGER/PELIGRO**

PRECAUCION AL USUARIO: Su usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

# PRECAUTIONARY AND PRACTICAL TREATMENT STATEMENTS APPEAR ON THE BACK OF THIS PACKAGE.

Information for Right-to-Know States:

Copper Sulfate pentahydrate: Sulfuric acid, copper (2+) salt (1:1)/ CAS Reg. No. 7758-98-7; Water / CAS Reg. No. 7732-18-5.

# **EPA REG!STRATION NO. 1278-5**

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#### EPA ESTABLISHMENT NO. 1278-TX-1

Net Weight 50 Lbs. - 22.68 Kg.

# MANUFACTURED BY PHELPS DODGE REFINING CORPORATION EL PASO, TEXAS 79998

Made in the United States of America.



# DANGER/PELIGRO

#### **PRECAUCION AL USUARIO:**

Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

# PRECAUTIONARY STATEMENTS

# HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Causes severe eye and skin irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing mist or dust and contact with skin, eyes, or clothing. Causes subtantial but temporary eye injury. May cause skin sensitization reactions in certain individuals. Protective clothing, including goggles, should be worn. Wash hands, aims, and face thoroughly with soap and warm water after handling. Remove contaminated clothing, and wash before reuse.

# STATEMENT OF PRACTICAL TREATMENT

#### **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. Do not give anything by mouth to an unconscious person.

# NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, repiratory depression and convulsions may be needed.

# **IF SPLASHED IN EYES:**

Immediately flush eyes with plenty of water for at least 15 minutes, and geomedical attention.

# **IF SPILLED ON SKINS:**

Remove contaminated clothes and shoes, immediately wash skin with soap and plenty of water, and get medical attention.

#### **IF INHALED:**

Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth; and get medical attention.

# **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water except as directed under the specific instactions section. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Direct application of copper sulfate to water may cause a significant reduction in populations of aquatic invertebrates, plants and fish. Do not treat more than onehalf of lake or pond at one time to avoid depletion of oxygen levels due to decaying vegetation. Allow one to two weeks between treatments 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 of equipment or disposal of wastes. Consult your State Fish and Game Agency before applying this product to public waters. Permits may be required before treating such waters.

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# STORAGE AND DISPOSAL

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

# STORAGE:

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Store unused product in orginal container only in a cool, dry area out of reach of children and animals. If container or bag is damaged, place the container or bag in a plastic bag. Shovel any spills into plastic bags and seal with tape.

# **PESTICIDE WASTE DISPOSAL:**

Pesticide wastes are acutely hazardous. Improper disposal of pesticide, spray mixture, or rinsate is 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. Open dumping is prohibited.

#### **CONTAINER DISPOSAL:**

Do not reuse empty container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Place the pesticide into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If burned, stay out of smoke.

# **RE-ENTRY STATEMENT**

Do not enter treated area without protective clothing until sprays have dried or dusts have settled. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information, written or oral warnings must be given to workers who are expected to be in a treated area or in an area to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

## WARNING: AHEA TREATED WITH TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE ON (date of application). DO NOT ENTER WITHOUT APPROPRIATE PROTICTIVE CLOTHING UNTIL SPRAYS HAVE DRIED OR DUSTS HAVE SETTLED. IN CASE OF ACCIDENTAL EXPOSURE, SEE THE STATEMENT FOR PRACTICAL TREATMENT ON THIS LABEL.

# **GENERAL INSTRUCTIONS**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling

# FEED ADDITIVE

# PHEL.'S DODGE REFINING CORPORATION TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE is a valuable dietary supplement in mixed feeds

for cattle, hogs, chickens and other agricultural animals. Consult your State Agricultural Experiment Station or State Extension Service for guidance in preparing dosages and formulas.

# FERTILIZER ADDITIVE

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# PHELPS DODGE REFINING CORPORATION TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE is a valuable copper supplement in mixed

# **DIRECTIONS FOR USE AS A PESTICIDE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

# SEWER TREATMENT FOR ROOT AND FUNGUS CONTROL

PHELPS DODGE REFINING CORPORATION TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE is effective in keeping sewer lines free of roots.

#### A. FOR PARTIAL STOPPAGE:

Add 1/2 pound of PHELPS DODGE REFINING TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE to sewer or drain and flush toward blockage with 5 gallons of water. Repeat at 6 month intervals to prevent growth of new roots.

#### **B. FOR COMPLETE STOPPAGE:**

Physically remove the root blockage and repeat as above.

# **Mixing Bordeaux Mixtures**

PHELPS DODGE REFINING CORPORATEION TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE INSTANT POWDER may be used as

an ingredient in Bordeaux Mixture sprays as a fungicide to control some plant diseases. If a Bordeaux Mix is stated as 10-10-100, the first figure indicates the number of pounds of COPPER SULFATE PENTAHYDRATE, the second is the number of pounds of HYDRATED

SPRAY LIME, and the third figure indicates the number of gallons of WATER to be used per zcre.

To prepare a Bordeaux Mixture, fill the tank 1/4 full with water while the agitator is running. Wash the PHELPS DODGE REFINING CORPORATION TRIANGLE BRAND COPPER SULFATE PENTAHYDRATE INSTANT POWDER into the tank

through a copper, bronze, stainless steel or plastic screen. Fill the tank 3/4 full with more water and wash 12 hydrated spray lime through the screen and then fill the tank. Agitate for several minutes to insure thorough mixing.



## CHEMIGATION

Refer to Supplemental Labeling for Use Directions for CHEMIGATION. Do not apply this product through any irrigation system unless supplemental labeling on CHEMIGATION is followed. Supplemental labeling is entitled:

# SUPPLEMENTAL LABELING COPPER SULFATE PENTAHYDRATE EPA REGISTRATION NO. 1278-5 EPA ESTABLISHMENT NO. 1278-TX-1 CHEMIGATION

# USING BORDEAUX MIXTURES WITH VARIOUS CROPS

# ALMONDS, APRICOTS, PEACHES, NECTARINES:

(For Shot Hole Fungus)

Prepare a 10-10-100 Bordeaux Mixture and apply as a dormant spray in late fall or early spring.

# ALMONDS, APRICOTS, CHERRIES, PEACHES, NECTARINES, PLUMS, PRUNES

(For Brown Rot Blossom Blight)

Prepare a 10-10-100 Bordeaux Mixture and apply when buds begin to swell.

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# **SOUR CHERRIES**

(Leaf Spot)

Prepare a 10-10-100 Bordeaux Mixture and apply as a full coverage spray after petal fall or as recommended by State Extension Service.

# LEMONS, ORANGES, GRAPEFRUIT

(Phytophthora Brown Rot)

Prepare a 3-4-5-100 Bordeaux Mixture where there is no history of copper injury, or 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 high, and 2 to 4 gallons on trunk and ground under the 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 first rain. In severe Brown Rot season, apply second application in January or February.

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# LEMONS, ORANGES, GRAPEFRUIT

(Septoria Fruit & Leaf Spot [Central California]) (Brown Rot, Zinc and Copper Deficiencies)

Prepare a 3-2-6-100 Bordeaux Mixture (Zinc Sulfate-Copper Sulfate-Hydrated Lime-Gallons of Water) and use 10 to 15 gallons to cover completely each tree. Apply in October, November or December just before or after first rain.

# WALNUTS

(Walnut Blight)

Apply 15 pounds Copper Sulfate with 1) pounds of Hydrated Lime in 100 gallons of water plus 1/2 gallon summer oil emulsion. Apply in early pre-bloom and at 10% to 20% pistillate (not when catkin blooms are showing) just before or after rain. Use only if Bordeaux Mixture has been proven to be non-phytotoxic in your area.

# OLIVES

(Peacock Spot, Olive Knot)

Prepare a 10-10-100 Bordeaux Mixture and apply in autumn before heavy winter rains to prevent Peacock Spot. In areas of less than 10 inches rainfall, us a 5-10-100 Bordeaux Mixture. To help protect against Olive Knot apply a 10-10-100 Bordeaux Mixture before heavy rains and again in the spring. Injury may occur in areas of less than 10 inches of rainfall.

# LILIES

(Botrytis Blight)

Prepare a 10-10-100 Bordeaux Mixture and apply at beginning of emergence. Repcat at 7 to 10 day intervals. Apply more often during frequent rainfalls or when severe disease conditions occur.

# **NOTICE TO BUYER**

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk or use and/or handling of this material when such use and/or handling is contrary to label instructions.

D.O.T. Hazard Class RQ-ORM-E NA-9188 RQ 10/4.54 ORM-E

# COPPER SULFATE PENTAHYDRATE CAS No. 7758-99-8