



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

October 4, 2021

Timothy Joseph
Senior Product Manager
Chem One, Ltd.
14140 Westfair East Drive
Houston, TX 77041-1104

Subject: Label Amendment – Adding ‘me-too’ uses for tree fruits, tree nuts, field crops, small fruits, vegetables, vine crops, miscellaneous crops, ornamentals, and algae control; update storage and disposal section; and other minor changes

Product Name: COPPER SULFATE CRYSTALS MUP
EPA Registration Number: 56576-20
Application Date: 10/05/2018
Decision Number: 544939

Dear Mr. Joseph:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

Page 2 of 2
EPA Reg. No. 56576-20
Decision No. 544939

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Lindsay DeMers by email at demers.lindsay@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Paul Di Salvo". The signature is written in a cursive style with a large initial "P".

Paul Di Salvo, MPS, AWB®
Special Assistant / Wildlife Biologist
Registration Division (7505P)
Office of Pesticide Programs

Enclosure: Stamped Label

{Master Label}
{Visible Front Panel}

COPPER SULFATE CRYSTALS MUP

ACTIVE INGREDIENT	BY WEIGHT
COPPER SULFATE PENTAHYDRATE	99.0%
OTHER INGREDIENTS	1.0%
TOTAL	100.0%

CAS #7758-99-8

COPPER AS METALLIC EQUIVALENT TO 25.1%

For manufacturing, repacking, formulation of algacides, fungicides, bactericides, molluscicides, leech control uses, and wood preservatives. For non-pesticide manufacturing and industrial uses.

For use as a fertilizer trace mineral for plant growth and used in accord with listed agronomic practices.

For the states of California, Oregon and Washington fertilizer use: Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org.metals.htm>.

When this product is used as a fertilizer ingredient: Guaranteed Analysis: Copper (Cu) = 25.0% Derived from Copper Sulfate

IMPORTANT: Each formulator using this product to formulate an end use pesticide product is responsible for obtaining an EPA registration for their end use product.

KEEP OUT OF REACH OF CHILDREN

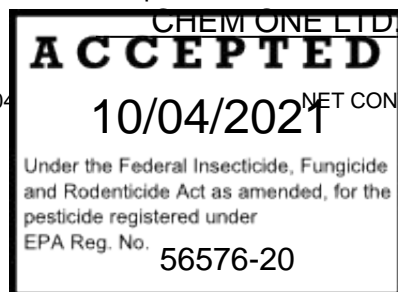
DANGER - PELIGRO

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.)

FIRST AID	
If in Eyes:	<ul style="list-style-type: none">• 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 to rinse eye.• Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have a person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If on Skin or Clothing:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378 Monday through Friday, 8:00am to 12:00pm Pacific Time (NPIC website: www.npic.orst.edu). For emergencies, call the poison control center at 1-800-222-1222, 24 hours a day, 7 days a week.	
NOTE TO PHYSICIAN	
Probably mucosal damage may contraindicate the use of gastric lavage. Product causes eye irritation.	

[See booklet attached to the back panel for the entire label including the directions for use.]

This product manufactured for
CHEM ONE LTD.
HOUSTON, TEXAS 77041-1104
TEL. (713) 896-9966



EPA REG. NO. 56576-20
EPA EST. NO. 52117-MX-001
NET CONTENTS: 50 LB (22.68 KG), 1500 LB (680.4 KG),
1900 LB (861.8 KG), 2000 LB (907.2 KG)

{Master Label}
{Visible Front Panel}

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER - PELIGRO

CORROSIVE. Causes irreversible eye damage. Causes skin irritation. May be fatal if swallowed. Harmful if absorbed through the skin or inhaled. Do not get in eyes, on skin or on clothing. Do not breathe dust or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear (goggles, face shield, safety glasses), long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves made out of Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Natural Rubber ≥ 14 mils, Polyethylene, Polyvinyl Chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils.

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.

USER SAFETY RECOMMENDATIONS:

Users 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 HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. 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. 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. Do not contaminate water when disposing of equipment washwaters or rinsate.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open burning and dumping is prohibited.

PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilutions of concentrate in food or drink containers.

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: Nonrefillable 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. If not emptied in this manner, the bag may be considered an acute hazardous waste and must be disposed in accordance with local, state and federal regulations. When empty, dispose of empty bag in a sanitary landfill or by incineration, or offer for recycling if available.

CHEM ONE LTD.

14140 Westfair East Drive
HOUSTON, TEXAS 77041
TEL: (713) 896-9966

ENVIRONMENTALLY HAZARDOUS SUBSTANCES
SOLID, N.O.S. (CUPRIC SULFATE) UN3077, RQ

{In some cases, the entire label may be printed on the bag without the use of a booklet}

[] indicate optional text

{ } indicates notes to the reviewer

{Master Label}
{Booklet}

COPPER SULFATE CRYSTALS MUP

ACTIVE INGREDIENT	BY WEIGHT
COPPER SULFATE PENTAHYDRATE	99.0%
OTHER INGREDIENTS	1.0%
TOTAL	100.0%

CAS #7758-99-8

COPPER AS METALLIC EQUIVALENT TO 25.1%

For manufacturing, repacking, formulation of algacides, fungicides, bactericides, molluscicides, and leech control uses. For non-pesticide manufacturing and industrial uses.

For use as a fertilizer trace mineral for plant growth and used in accord with listed agronomic practices.

For the states of California, Oregon and Washington fertilizer use: Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org.metals.htm>.

When this product is used as a fertilizer ingredient: Guaranteed Analysis: Copper (Cu) = 25.0% Derived from Copper Sulfate

IMPORTANT: Each formulator using this product to formulate an end use pesticide product is responsible for obtaining an EPA registration for their end use product.

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.)

FIRST AID	
If in Eyes:	<ul style="list-style-type: none">• 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 to rinse eye.• Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have a person sip a glass of water if able to swallow.• DO NOT induce vomiting unless told to do so by the poison control center or doctor.• DO NOT give anything by mouth to an unconscious person.
If on Skin or Clothing:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378 Monday through Friday, 8:00am to 12:00pm Pacific Time (NPIC website: www.npic.orst.edu). For emergencies, call the poison control center at 1-800-222-1222, 24 hours a day, 7 days a week.	
NOTE TO PHYSICIAN	
Probably mucosal damage may contraindicate the use of gastric lavage. Product causes eye irritation.	

[See booklet attached to the back panel for the entire label including the directions for use.]

CHEM ONE LTD. →

This product manufactured for
CHEM ONE LTD.
HOUSTON, TEXAS 77041-1104
TEL. (713) 896-9966

EPA REG. NO. 56576-20
EPA EST. NO. 52117-MX-001
NET CONTENTS: 50 LB (22.68 KG), 1500 LB (680.4 KG),
1900 LB (861.8 KG), 2000 LB (907.2 KG)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER - PELIGRO

CORROSIVE. Causes irreversible eye damage. Causes skin irritation. May be fatal if swallowed. Harmful if absorbed through the skin or inhaled. **DO NOT** get in eyes, on skin or on clothing. **DO NOT** breathe dust or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear (goggles, face shield, safety glasses), long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves made out of Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Natural Rubber ≥ 14 mils, Polyethylene, Polyvinyl Chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils

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.

USER SAFETY RECOMMENDATIONS:

Users 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 HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. **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. **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. **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.

FORMULATION OF PESTICIDES:

Only for formulation into algaecides, fungicides, bactericides, molluscicides, and leech control uses. For the following uses:

Algae, aquatic weed and Quagga and Zebra mussel control in flowing water or static or minimal flow situations, in crop and noncrop irrigation conveyance systems, ditches, canals, and laterals.

Algae, aquatic weed, snail, leech, and microscopic organism control in impounded waters (to include tanks, raceways, ponds, lakes, reservoirs) and fish hatcheries.

Algae and bacteria odor control in sewage lagoons, pits, other organic sludges, swimming pools, waterscapes, decorative pools, and fountains.

Algae and tadpole shrimp (*Triops longicaudatus*) control in rice fields (domestic and wild).

Domestic, commercial, institutional and municipal uses for root and fungus control in drains, sewer, sewer pumps, and force mains.

Schistosome - infected fresh water snails.

Algae control in aquaculture when fish are present.

Tanning and preservative agent for leather and hides.

Control of the genera of algae listed below commonly found in waters of the United States:

Chlorophyceae (Green): Ankistrodesmus, Botryococcus, Chara, Chlorella, Cladophora, Closterium, Coelastrum, Crucigenia, Desmidium, Draparnaldia, Enteromorpha, Gloeocystis, Golenkinia, Hydrodictyon, Microspora, Nitella, Oocystis, Palmella, Pithiphora, Scenedemus, Spirogyra, Staurastrum, Tetraedron, Tribonema, Ulothrix, Zygnema
Cyanophyceae (Blue-Green): Anabaena, Anacystis, Aphanizomenon, Calothrix, Cylindrospermum, Gloeotrichia, Gomphosphaeria, Nostoc, Oscillatoria, Phormidium, Plectonema, Polycystis, Rivularia, Symploca
Diatomaceae (Diatoms): Achnanthes, Asterionella, Cymbella, Fragilaria, Gomphonema, Melosira, Navicula, Neidium, Nitzschia, Stephanodiscus, Synedra, Tabellaria
Protozoa (Flagellates): Ceratium, Chlamydomonas, Cryptomonas, Dinobryon, Eudorina, Euglena, Glenodinium, Haematococcus, Mallomonas, Pandorina, Peridinium, Synura, Uroglena, Volvox

For use in formulating fungicides/bactericides for use on the following crops:

TREE FRUITS: Apple, Atemoya, Avocado, Banana, Carambola, Cherimoya (custard apple), Citrus (grapefruit, kumquat, lemon, orange, tangelo, tangerine, lime), Guava, Loquat, Mamey Sapote, Mango, Olive, Papaya, Pear, Persimmon, Quince, Stone Fruit (apricot, cherry (sweet and sour), nectarine, peach, plum, prune)

TREE NUTS: Almond, Betel Nut, Cacao, Chestnut, Coffee, Filbert, Litchi, Macadamia, Pecan, Pistachio, Walnut

FIELD CROPS: Alfalfa, Barley, Clover, Corn, Millet, Oat, Peanut, Potato, Rice, Rye, Sorghum, Soybean, Sugar Beet, Sugarcane, Tobacco, Wheat

SMALL FRUITS: Caneberries (blackberry, boysen, dewberry, logan, raspberry), Blueberry, Cranberry, Currant, Gooseberry (ribes), Strawberry

VEGETABLES: Artichoke, Asparagus, Bean, Beet, Broccoli, Brussel Sprout, Cabbage, Carrot, Cauliflower, Celery, Celeriac, Chard, Chinese Cabbage, Collard Greens, Cucurbits (cantaloupe, cucumber, muskmelon, pumpkin, squash, watermelon), Eggplant, Garlic, Kale, Kohlrabi, Leek, Lettuce, Mustard Greens, Okra, Onion, Pea, Pepper, Radish, Rhubarb, Rutabaga, Shallot, Spinach, Tomato, Turnip Greens, Watercress

VINES: Grape, Hops, Kiwi, Passion Fruit

MISCELLANEOUS: Chicory, Chives, Cinnamon, Coriander, Dill, Ginseng, Mint, Parsley, Rosemary, Turfgrass

ORNAMENTALS: Easter Lilly, Gladiolus, Tulip

NOTE: This product may be used to formulate products for specific use(s) not listed on this MUP label if the formulator, user group, or grower has complied with U. S. EPA submission requirements regarding support of such use(s).

Also intended for non-pesticide manufacturing and Industrial uses.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal. Open burning and dumping is prohibited.

PESTICIDE STORAGE: Keep pesticide in original container. **DO NOT** put concentrate or dilutions of concentrate in food or drink containers.

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: Nonrefillable 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. If not emptied in this manner, the bag may be considered an acute hazardous waste and must be disposed in accordance with local, state and federal regulations. When empty, dispose of empty bag in a sanitary landfill or by incineration, or offer for recycling if available. **DO NOT**

WARRANTY STATEMENT

NOTICE: CHEM ONE LTD. 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 CHEM ONE LTD. To the extent consistent with applicable law, CHEM ONE LTD. shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. To the extent consistent with applicable law exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling or application of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid for this product or at CHEM ONE LTD.'s election, the replacement of this product. CHEM ONE LTD. MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

CHEM ONE LTD.

14140 Westfair East Drive
HOUSTON, TEXAS 77041
TEL: (713) 896-9966

ENVIRONMENTALLY HAZARDOUS SUBSTANCES
SOLID, N.O.S. (CUPRIC SULFATE) UN3077, RQ

20181005 AMEND TGL
20191108 (e) Additional Changes
20191122 (e) Additional Changes
20210914 (e) Additional Changes