



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 29, 2018

Premjit Halarnkar, Ph.D., MPA
Global Head of Regulatory Affairs
CH Biotech R&D Co. Ltd
c/o CH Biotech, LLC
601 Kettering Dr.
Ontario, CA 91761

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Revision to Product Label to Update Emergency Contact Information, Company Name (Including Contact Information), EPA Registration Number, EPA Establishment Number, Agricultural Use Section, Storage and Disposal Section, and Warranty Section.
Product Name: Choline Chloride SP
EPA Registration Number: 90866-21
Application Date: 06/07/2018
OPP Decision Number: 541854

Dear Dr. Halarnkar:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or 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 (1) copy of the final printed labeling before you release this 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 your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or

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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 EPA 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 Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact James Parker by phone at (703) 306-0469 or via email at parker.james@epa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is written in a cursive style with a long, sweeping tail on the last letter.

Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

Choline Chloride SP

Plant Growth Regulator for improved Plant Growth for Plants
Grown in Sodic Soils

ACTIVE INGREDIENT:	BY WT
Choline Chloride	19.75%
OTHER INGREDIENTS:	80.25%
TOTAL	100.00%

KEEP OUT OF REACH OF CHILDREN

CAUTION

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 rinsing 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 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 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.
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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 (NPIC Web site: www.npic.orst.edu).</p> <p>For general product information, call CH Biotech LLC. at (909) 472-3033 between the hours of 9 a.m. – 4 p.m. Pacific Time.</p>	

EPA REG. NO. 90866-21
EPA EST. NO. 90866-CA-001
NET CONTENTS 2.2 lbs
Batch No.

Produced For
CH Biotech R&D., Ltd.
By CH Biotech LLC
601 Kettering Drive
Ontario, CA 91761
Tel: 909-472-3033
Email: info@chbio.com

A C C E P T E D
06/29/2018
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 90866-21

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution. Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye and skin irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or mist. Wash thoroughly with soap and water after handling and before eating, drinking or chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

An mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks
- Shoes
- Chemical-Resistant gloves

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, in areas where surface water is present, or in intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

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.

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 applications. 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 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 statements on this label about personal protective equipment (PPE), notification to workers, 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 4 hours. PPE required for early entry into 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,
- Chemical resistant gloves in Category A, such as butyl rubber > 14 mils, or natural rubber > 14 mils, or neoprene rubber > 14 mils or nitrile rubber > 14 mils, and
- Shoes plus socks

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 (WPS) 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.

Keep unprotected persons out of treated areas until sprays have dried.

GENERAL INFORMATION

Use only as directed. The label should be read thoroughly and understood before making applications.

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

APPLICATION CONDITIONS

Choline Chloride SP contains Choline, a plant growth regulator. When applying plant growth regulators, follow the label directions for rates, timings, and water volumes.

- Do not apply untested spray mixes.
- Do not apply to plants under pest, nutritional, or water stress.
- Effectiveness requires that all parts of plant or crop receive thorough spray coverage or desired result will not occur.

Prepare solution concentrations by mixing the required amount of product with water in a clean, empty spray tank.

Dispose of any unused spray material at the end of each day following local, state or federal law.

- For best results, use water with a neutral pH and always below 8.5.
- Choline Chloride SP applications made under slow drying conditions (cool to warm temperatures, medium to high relative humidity, and no wind) will increase absorption by the plant, thus optimizing effectiveness. Night-time applications are encouraged when day-time conditions are not conducive to slow drying conditions.
- Do not apply Choline Chloride SP if a rain event is anticipated within 3 hours of application.
- Compatibility: The Choline Chloride SP spray guidelines refer to the use of the product alone. CP Bio. Inc. CH Biotech R&D Co., Ltd. does not assume responsibility for unexpected results due to the tank mixing of Choline Chloride SP with other products.
- DO NOT apply using ULV application methods. For aerial applications use spray volumes of 2 gallons per acre or greater (10 gallons per acre for tree crops).

MIXING AND SPRAY INSTRUCTIONS

Mixing: Add Choline Chloride SP to the spray tank with the agitation running. Make sure that the powder is fully dissolved in the water. The spray tank should be 2/3 full with the proper amount of water to provide sufficient coverage to the foliage.

Spraying: Make spray mixtures in sufficient volume to cover the crop foliage. Sprays can be applied by ground equipment or aircraft.

SPRAY INSTRUCTIONS FOR CROP CATEGORIES

Crop	Timing	Rates
Fruiting Vegetables	At transplanting, when growth slows during season 2-4 applications	100-300 ppm 2-4 times per season.
Cereal Grains	Apply foliar spray 3-4 times per season when growth slows.	100-400 ppm 3-4 times per season.
Stone Fruit	Apply to early growth and continue 3-4 times per season.	200-500 ppm in sufficient water to cover foliage.
Nut Crops	Apply 3-4 times per season as foliar spray.	200-500 ppm in sufficient water to cover foliage.
Cotton	Apply to early growth then 2-4 times per season as needed.	100-400 ppm in sufficient water to cover foliage.

CONVERSION TABLES

28.35 grains = 1 ounce

1 gram = .035 ounce

Grams of Choline Chloride SP Per Acre Desired Choline Chloride Concentration (Grams Active Ingredient per acre) in Finished Spray	Grains of Choline Chloride SP Formulation Per Acre Choline Chloride SP powder contains 1.0 Gram Active Ingredient in 5 grains of formulated product
0.2	1
0.5	2.5
1.0	5
2.0	10
4.0	20
5.0	25
8.0	40
10.0	50
12.0	60
16.0	80
20.0	100
25.0	125
32.0	160
40.0	200
48.0	240
50.0	250
128.0	640

ppm (parts per million) Choline Chloride SP	Grams of Choline Chloride SP per gallon of spray
50	1.9
100	3.8
250	9.4
500	18.9
750	28.3
1,000	37.7

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep containers tightly closed when not in use. Store away from any heat source.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ~ full with water and recap. Shake for 10 seconds. Pour reinstate into application equipment or a mix tank or store reinstate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For chemical spill, leak, fire or exposure, call CHEMTREC at 1-800-424-9300.

LIMITED WARRANTY AND DISCLAIMER

NOTICE: CH Biotech R&D Co., Ltd. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use. Buyer assumes all risks of use and handling which is a variance in any way with the directions herein. To the extent consistent with applicable law, CH Biotech R&D Co., Ltd. makes no other express or implied warranty of fitness or merchantability. To the extent consistent with applicable law, in no case shall CH Biotech R&D Co., Ltd. or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. CH Biotech R&D Co., Ltd. and Seller offer this product and the Buyer and user accept it, subject to the foregoing Limited Warranty and Disclaimer which may be varied only by agreement in writing signed by a duly authorized representative of CH Biotech R&D Co., Ltd.

**Produced For
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By CH Biotech LLC
601 KETTERING DRIVE
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