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05/29/2013

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

OFFICE OF CHEMICAL, SAFETY
AND POLLUTION PREVENTION

Life Science Group, Inc.
c/o Robert Brennis
Brennis Consulting Services LLC
6628 Birchleigh Way
Alexandria, Va 22315

MAY 29 2013

Subject: Labeling Amendment to Alonglife
EPA Registration No. 88930-1
Decision No. 479128
Submission Date: 1/25/13 and resubmission 5/28/13

Dear Mr. Brennis:

The labeling referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended to update container size, storage and disposal, Agricultural Use Requirements and rice field directions for use, is acceptable. A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment. If you have any questions, please contact Dominic Schuler at (703) 347-0260 or via email at schuler.dominic@epa.gov.

Sincerely,

A handwritten signature in black ink, reading "Tony Kish", is written over a horizontal line.

Tony Kish
Product Manager 22
Fungicide Branch
Registration Division (7504P)

ALONGLIFE®

Algaecide / Bactericide*

KEEP OUT OF REACH OF CHILDREN

DANGER / PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)

See back label for First Aid and additional Precautionary Statements.

ACTIVE INGREDIENT:	
*Copper Sulfate Pentahydrate (CAS #7758-99-8)	19.8%
OTHER INGREDIENTS:	80.2%
TOTAL:	100.0%
*5% Metallic Copper Equivalent	

For Emergency Assistance Call
CHEM-TEL, INC. (800-255-3924)

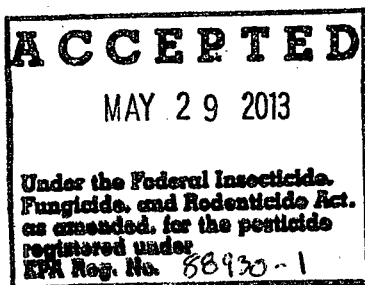
EPA Reg. No. 88930-1

EPA Est. No. 88930-MI-1

**Non-Flammable
DO NOT FREEZE**

NET CONTENTS:

1 Gal./ 3.79L
30 Gal. / 113.56L
55 Gal. / 208.19L
275 Gal. / 1040.99L
9.9 lbs. per Gallon 1.188 Kg/L



Life Science Group, Inc.

Highland, Michigan, USA – (248) 438-5323

PRODUCT INFORMATION:

ALONGLIFE is used for the suppression of bacterial odors and toxic gases in sewage lagoons, feedlot runoff pits, animal confinement facilities, and organic sludge pits containing organic matter of algae/bacteria*. ALONGLIFE may also be used to control algae, bacteria* and pond weed in irrigation reservoirs, lakes, ponds, rice fields, aquaculture ponds, livestock watering systems, biological fish ponds or systems, chemigation systems, and waters destined for use as drinking water. ALONGLIFE is a formulation used for control of algae and suppression of bacterial* growth in private and public pools, spas and hot tubs. ALONGLIFE also extends the shelf life of fruits and vegetables when used as directed on this label.

* Non-public health bacteria

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals DANGER Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if swallowed, inhaled or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. For applications in waters destined for use as drinking water, those waters must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in these waters.	
FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 800-255-3924 (insert correct phone no. for final printed label) for emergency medical treatment information.	If in Eyes: 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 physician immediately for treatment advice.
If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.	If Swallowed: Call a poison control center or doctor immediately for advice. Have the 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.
If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.	

PERSONAL PROTECTIVE EQUIPMENT: Applicators and other handlers must wear: - Long Sleeve Shirt - Long Pants - Chemical-resistant gloves made of any waterproof material. - Protective Eyewear - Shoes plus socks	
USER SAFETY REQUIREMENTS 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. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.	APPLICATION AND HANDLING EQUIPMENT: Application, handling or storage equipment MUST consist of either fiberglass, PVCs, polypropylenes, viton, most plastics, aluminum or stainless steel. Never use mild steel, nylon, brass or copper around full strength ALONGLIFE. Always rinse equipment free and clean of ALONGLIFE each night with plenty of fresh, clean water. Always store ALONGLIFE above 32°F. Freezing may cause product separation. Seller makes no warranty for the performance of product which has been frozen. Useful formulas for calculating water volume and flow rates: To find the capacity of water storage containment in gallons: Multiply the water volume in cubic feet times 7.5 Note: 1 C.F.S./Hr. = 27,000 gallons 1 Acre Foot = 326,000 gallons

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.

ENVIRONMENTAL HAZARDS

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

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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 (≤ 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.

APPLICATION AND HANDLING EQUIPMENT:
Application, handling or storage equipment MUST consist of either fiberglass, PVCs, polypropylenes, viton, most plastics, aluminum or stainless steel. Never use mild steel, nylon, brass or copper around full strength ALONGLIFE. Always rinse equipment free and clean of ALONGLIFE each night with plenty of fresh, clean water. Always store ALONGLIFE above 32°F. Freezing may cause product separation. Seller makes no warranty for the performance of product which has been frozen. Useful formulas for calculating water volume and flow rates:

To find the capacity of water storage containment in gallons:

Multiply the water volume in cubic feet times 7.5

Note: 1 C.F.S./Hr. = 27,000 gallons

1 Acre Foot = 326,000 gallons

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 requirement specific to your State and Tribe, consult the State/Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS APPLICABLE TO USE ON RICE FIELDS

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), notification to workers, and restricted-entry interval. The requirements in this box 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 plants, soil, or water), is:
- coveralls over long-sleeved shirt and long pants - chemical-resistant gloves - chemical-resistant footwear plus socks - protective eyewear - chemical-resistant headgear
Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.
Do not apply ALONGLIFE in a way that will contact workers or other persons, either directly or through drift. Only protected handlers are permitted in the area during application. Permits for the use of this product in public water may be required, check with local authorities.
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. Do not allow people or pets to enter treated areas until sprays have dried

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, 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. When there may be drift caused by wingtip or rotor vortices, the minimum practical boom length should be used.

For Ground Boom Application: Do not apply with a nozzle height greater than 4 feet above the crop

BACTERIAL ODOR CONTROL:

Apply up to 1 Gallon ALONGLIFE per 60,000 gallons (8,000 cubic feet) of organic matter (sewage).

Application rates may vary depending on amounts of sewage in lagoons and pits. Apply by pouring

ALONGLIFE® into the pit or lagoon. Several application points speed up dispersal. For faster results, disperse ALONGLIFE evenly throughout sewage. Bacterial odors should be noticeably reduced in 1-2 weeks. Repeat application when odors recur.

Feedlot Runoff Lagoons: Add a portion of the required dosage of ALONGLIFE at several locations around the lagoon to speed dispersal of the product. A minimum of two applications per year (spring and fall) is recommended. Additional applications may be required as needed or when the lagoon is pumped.

Animal Confinement Pits: If pits are located under the confinement buildings, add ALONGLIFE directly to these pits. If the pits are outside, add ALONGLIFE® to transfer line to the pit.

Organic Sludge Pits: Apply 1 Gallon ALONGLIFE® in 60,000 gallons of sludge, mixing thoroughly.

ALGAE/BACTERIA* CONTROL IN IMPOUNDED WATERS, LAKES, PONDS, LIVESTOCK WATERING SYSTEMS, RESERVOIRS, OR IRRIGATION CANALS:

Apply ALONGLIFE through metering pump, subsurface hoses or from a properly equipped moving boat into the lakes, ponds, reservoirs or irrigation canals. When applying from boat, use minimal speed to allow the prop wash to disperse and mix the product into the treated waters. Dispense up to 5.5 gallons per acre-foot of water (see use rate chart below). Apply in late spring or early summer when algae/bacteria* first appear. For best results, disperse ALONGLIFE evenly to warm, still water on a sunny day when algae are near the surface. Several application points speed up dispersal.

Use rates vary, depending on algae/bacteria* species, water hardness, water temperature, and amount of algae/bacteria* present; as well as whether water is clear, turbid, flowing or static. Preferably, the water should be clear with temperatures above 60°F (15.6°C). Higher dosages are required at lower water temperatures, higher algae/bacteria* concentrations, and for hard waters. Static water requires less chemical for algae/bacteria* control than does flowing water. Use higher dosages for chara, nitella, and filamentous algae (pond scum), and lower dosages for planktonic algae. If there is uncertainty about the dosage, begin with a lower dose and increase until control is achieved or until the maximum allowable level has been reached.

Calculate the Acre-Feet of water in body of water to be treated by calculating the surface area in square feet. Then divide by 43,560 (sq.ft./acre). Then multiply by the average depth in feet.

- 1 Acre Foot of Water = An area of water measuring 43,560 sq. ft. x 1 foot deep
- 1 Acre Foot of Water = 43,560 cubic feet = 325,851.6 gallons
- 1 Cubic Foot of Water = 62.4 pounds
- 1 Acre Foot of Water = 43,560 x 62.4 = 2,720,000 pounds

USE RATES:

Gallons of Product per acre/ft	Equivalent Metallic Copper (ppm)
0.33	0.06
0.50	0.09
3.30	0.60
5.50	1.00

Before treating bodies of water, consult proper state authorities, such as the fisheries commission or conservation department to obtain any necessary permits. Do not apply copper sulfate to water less than 40 ppm alkalinity without first testing for fish toxicity in a separate container.

Treatment of algae can result in oxygen loss from the decomposition of dead algae, which may cause fish suffocation. If algae cover more than one-third of the total water area, treat in sections. Treat one-third to one-half of the water area in a single operation, and wait 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. In regions where ponds freeze in winter, treatment should be done 6 to 8 weeks before expected freeze time to prevent masses of decaying algae under an ice cover.

SWIMMING POOLS, SPAS & HOT TUBS:

Apply at the rate of 2-4 quarts of ALONGLIFE per 60,000 gallons (8,000 cu. ft.), (0.5 to 1.0 ppm metallic copper) to control bacterial odors and algae throughout the year. For hot tubs or spas, apply at a rate of 0.1 - 0.2 fl. oz. per 100 gallons of water. Measure the amount of product to be used with a calibrated measuring device. Do not use a measurement cup or device that may also be used for human or pet food. For best results, apply before visible algae appear. If visible algae are present, use the higher rate. For maintenance treatment and where visible algae are not present, use the lower rate. Do not discharge treated effluent where it will drain into lakes, streams, ponds or public water.

IN NON-SPRINKLER, NON-D RIP IRRIGATION CONVEYANCE SYSTEMS AND CHEMIGATION SYSTEMS, DITCHES, CANALS, AND SIMILAR OPEN IRRIGATION CONVEYANCES:

For continuous addition, add 2 fl.oz. per hour of ALONGLIFE for each 1,000 gallons of water per hour. For conveyance systems longer than 30 miles, dispense this rate among injection points every 30 miles. Do not exceed the total dosage of 1 Gallon ALONGLIFE in 60,000 gallons of water (1 ppm metallic copper).

TO CONTROL ALGAE OR BACTERIA* IN SPRINKLER, DRIP OR OTHER TYPES OF CLOSED IRRIGATION EQUIPMENT: Use 1 pint ALONGLIFE® per 7,500 to 300,000 gallons of water. Agitation is not required. Do not mix with basic substances. ALONGLIFE must be applied continuously for the duration of the water application.

TO CONTROL ALGAE AND TADPOLE SHRIMP IN RICE FIELDS: Apply

ALONGLIFE® at the first sign of algae growth on the surface of the field. Applications are most effective when made prior to algae leaving the soil surface and rising to the water surface. Factors such as water depth, temperature, pH and the amount of algae can affect the amount of ALONGLIFE required. If the depth of water is 8 inches, apply 9 gallons of product per acre. If the depth of water is 4 inches, apply 4½ gallons of product per acre. ALONGLIFE can be metered into the rice field as water is being applied or slug fed into each paddy when water is being held. Do not exceed a metallic copper concentration in water of 2.5 ppm of metallic copper concentration (9 gallons of product per acre with 8 inch depth of water or 13½ gallons of product per acre foot of water). Do not exceed 1 ppm of metallic copper if tadpole shrimp are not present.

EXTENSION OF SHELF LIFE OF FRUITS AND VEGETABLES: Add 1 Gallon

ALONGLIFE to 60,000 gallons of water (1.0 ppm metallic copper) and mix thoroughly. Wash fruit or vegetables in solution by immersion, spraying, soaking or other similar method. Drain solution from fruit or vegetables. Fruits and vegetables must remain refrigerated to ensure effectiveness.

BIOLOGICAL FISH PONDS AND AQUACULTURE SYSTEMS: Add 1 pint of

ALONGLIFE to 18,700 gallons of water (0.4 ppm metallic copper) and mix thoroughly.

Storage and Disposal

Pesticide Storage: Store in a safe place away from PETS AND KEEP OUT OF THE REACH OF CHILDREN. Store between 40° and 120° F, away from excessive heat. ALONGLIFE® will freeze. Always keep container closed. Store ALONGLIFE® in its original container only. Bulk ALONGLIFE® shall be stored and handled in stainless steel, fiberglass, polypropylenes, PVCs or plastic equipment. Keep away from galvanized pipe and any nylon storage or handling equipment.

Pesticide Disposal: Excess ALONGLIFE must be disposed of through use. Do not contaminate lakes, rivers, or streams as this may cause fish kills. 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.

In the event of a spill, neutralize with limestone or baking soda before disposal. May deteriorate concrete.

CONTAINER HANDLING: For containers < 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure 2 more times. Offer for recycling if available. If recycling is not available, puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For containers > 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 1/4 full with water and recap. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available, puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

{for 275 gallon container only}
CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When empty, return to point of sale. Call 1-248-438-5323 for instructions on returning the empty container.

LIMITED WARRANTY AND LIMITATION OF REMEDIES

To the extent consistent with applicable law, seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS OR MERCHANTABILITY, expressed or implied, or any other warranty if the product is used contrary to the label instructions, or under abnormal conditions or under conditions not foreseeable to the seller. To the extent consistent with applicable law, in no case shall the seller be liable for more than the cost of this product to the buyer, and will in no event be liable for any consequential, special or indirect damages connected with the use or handling of this product. To the extent consistent with applicable law, this product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied.