

61943-1

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

DEC 21 2006

c/o Rebeca Horton
118 ½ East Main Street
Suite 1
Salem, VA 24153-3805

CHEM-A-CO, Inc.
P.O. Box 1099
Monticello, IN 47960

Subject: SCI/62 Algicide/Bactericide
EPA Registration No. 61943-1
Your Label Amendment application dated May 8, 2006

Dear Ms. Horton:

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you submit a revised final printed label as indicated below, within 45 days of the date of this letter. Alternate brand names "Advanced-Blue Pool and Spa Products Algicide/Bactericide for Pools" and "Along-Cide" are acceptable.

1. Spanish equivalent signal word 'Peligro' must appear to the right of 'Danger' on the front panel of the label. Beneath these signal words insert 'Si usted no entiende la etiqueta, busque a alguien para que se la explique and usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)'.

1a. The telephone number that appears on the label's front panel is incorrect, replace with correct telephone number.

2. Delete superlatives 'innovative' and 'unique' from the section 'General Information' on page 2 of the label.

2a. Throughout the label ensure that the reference '1ppm copper' is changed to read '1ppm metallic copper'.

3. In the 'Precautionary Statements' section of the label, include 'Remove contaminated clothing and wash clothing before reuse.' From this label section, delete the statement "May cause allergic skin response" and insert "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals." Modify the current ocular precautionary statement to read "Wear protective eyewear (goggles, face shield, or safety glasses)."

3a. In the 'First Aid' section of the label, fill in the missing emergency telephone number, and include guidance for 'If inhaled' into the First Aid table, accompanied by appropriate guidance.

4. 'Environmental Hazards' section requires the initial sentence to read 'This product is toxic to fish and other aquatic organisms'. In the second sentence of this section, substitute 'Improper' for 'Direct', else the reading of the guidance tends to be ambiguous.

5. Add the following statements or a variation thereof to the section 'Directions for Use': 'Don't apply SCI-62 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.'

6. The third sentence in the section 'General Bacterial Odor Control', must be modified as to read: 'Apply by pouring SCI-62 directly from the container into the pit or lagoon.' Change 'reoccur' to 'recur' in the final sentence of this section.

6a. Similarly, the first sentence on page 4, in the section 'Feedlot Runoff Lagoons, modify the sentence by including 'Add a portion ...SCI-62 by pouring directly from the container'.

6b. Likewise, the section 'General Algae/Bacteria Control...Canals or Swimming Pools' requires its first sentence to be modified to read 'Apply SCI-62 through metering pump, subsurface hoses or...irrigation canals. SCI-62 should be poured directly from the container into swimming pools.'

6c. In the subsection 'Animal Confinement Pits', substitute 'directly' for 'direct'.

7. On page 6, section 'Extension of Shelf Life of Fruits and Vegetables', in the third sentence change 'water' to 'solution', by doing so, potential ambiguity will be minimized.

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SCI/62 Algicide/Bactericide
EPA Registration No. 61943-1

8. In the 'Storage and Disposal' section of the label, append 'Pesticide' to the subheadings 'Storage' and 'Disposal' to read 'Pesticide Storage:' and 'Pesticide Disposal'.

8a. Also, in the subsection 'Pesticide Storage' include the temperature requirement for proper product storage, as its fitness/efficacy is largely dependent thereto. The final sentence of this subsection requires 'or' to be inserted between 'storage' and 'handling' to assure legibility.

8b. First sentence in the 'Pesticide Disposal' section requires 'should' to be changed to 'must'.

9. Under the section "Limited Warranty and Limitation of Remedies" append the first and last sentence with "To the extent consistent with applicable law...." As currently written the statement negates and/or detracts from labeling requirements as set forth by the Agency in 40 CFR Part 156, and is, therefore, considered misbranding."

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release of the product for shipment constitutes acceptance of these conditions.

If you have any questions, please contact Bryant Crowe by phone at (703) 305-0025 or via email at crowe.bryant@epa.gov.

Sincerely,



Cynthia Giles-Parker
Branch Chief
Fungicide Branch
Registration Division (7505P)



SCI-62[®]

Algicide / Bactericide^{1,2}

[For Spas and Hot Tubs¹]

Additional Brand Names: ADVANCFD-BLUF[®] Pool and Spa Products Algicide/Bacteriostat^{1,2} for Pools; Pool-Cide²; ALONG-CIDE²

KEEP OUT OF REACH OF CHILDREN
DANGER

See back label for First Aid and additional Precautionary Statements.

ACTIVE INGREDIENT:

*Copper Sulfate Pentahydrate (CAS #7758-99-8)..... 19.8%^a

OTHER INGREDIENTS:..... 80.2%^a

TOTAL: 100.0%^a

*5% Metallic Copper Equivalent

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

EPA Reg. No. 61943-1
EPA Est. No. 61943-IN-1

Non-Flammable
DO NOT FREEZE

Manufactured by: CHEM-A-CO, INC.
Monticello, IN 47960 - 219-583-4368

NET CONTENTS: 1 GAL.
9.9 lbs. per Gallon 1.188 Kg/L

¹Algae Control Only

²Non-Public Health Bacteria

ACCEPTED
with COMMENTS
In EPA Letter Dated

DEC 21 2006

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

61943-1

GENERAL INFORMATION

SCI-62® is an innovative, unique formulation used for the suppression of bacterial odors and toxic gases in sewage lagoons, feedlot runoff pits, animal confinement facilities, and other ponds containing organic matter of algae/bacteria. SCI-62® may also be used to control algae, bacteria and pond weed in irrigation reservoirs, ponds, flooded rice and wild rice fields, aquaculture ponds, biological fish ponds or systems, chemigation systems, and potable water sources. SCI-62® is an innovative and unique formulation used for control of algae and suppression of bacterial growth in private and public pools, spas and hot tubs. SCI-62® also extends the shelf life of fruits and vegetables when used as directed on this label.

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals DANGER

Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear goggles or safety glasses. Harmful if swallowed, inhaled or absorbed through skin. May cause allergic skin response. Avoid contact with skin. Wash thoroughly with soap and water after handling.

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 x-xxx-xxx-xxxx 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.

PERSONAL PROTECTIVE EQUIPMENT:

Applicators and other handlers must wear:

- Long-sleeved shirt
- Long Pants
- Chemical-resistant gloves made of any waterproof material. Chemical resistance category A.
- Protective Eyewear
- Shoes plus socks

Maintain this clothing separately from other laundry and wash with detergent and hot water, or according to manufacturer's label. If these items become drenched with this product's concentrate, discard the clothing and do not re-use.

ENVIRONMENTAL HAZARDS

Fish and Aquatic Organisms: This product is toxic to fish. Direct application of SCI-62® to water may cause a significant reduction in populations of aquatic invertebrates, plants and fish. Do not treat more than one-half of a lake or pond at one time in order to avoid depletion of oxygen from decaying vegetation. Allow 1 to 2 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 acidic waters. Do not contaminate water when disposing of equipment wash waters. (See Disposal Instructions.) Consult your local State Fish and Game Agency before applying this product to public waters. Permits may be required before treating such waters.

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 SCI-62®. Always rinse equipment free and clean of SCI-62® each night with plenty of fresh, clean water. Always store SCI-62® above 32°F. Freezing may cause product separation. Seller makes no warranty for the performance of product which has been frozen. Spray over entire area of lagoon or mix thoroughly until completely dispersed with the sewage.

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.

GENERAL BACTERIAL ODOR CONTROL: Apply up to 1 Gallon SCI-62® 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 SCI-62® directly into the pit or lagoon. Several application points speed up dispersal. For faster results, disperse SCI-62® evenly throughout sewage. Bacterial odors should be noticeably reduced in 1-2 weeks. Repeat application when odors reoccur.

Feedlot Runoff Lagoons: Add a portion of the required dosage of SCI-62® at several locations around the lagoon to speed dispersal of the product. A minimum of 2 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 SCI-62® direct to these pits. If the pits are outside, add SCI-62® to transfer line to the pit.

Other Organic Sludges: Apply 1 Gallon SCI-62® in 60,000 gallons of sludge, mixing thoroughly.

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

Apply SCI-62® through 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 1.25 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 SCI-62® 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-Foot 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 = Water measuring 208.7' long x 208.7' wide x 1' 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 Product per Acre-Foot Water	ppm Metallic Copper Equivalent (do not exceed 1.0 ppm metallic copper)
0.33	0.06
0.50	0.09
3.30	0.60
5.50	1.00

Use Precautions & Restrictions: Trout and certain other species of fish may be killed at recommended application rates, especially in soft or acidic waters. 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 metallic copper 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 10 to 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 SCI-62® 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 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-DRIP IRRIGATION CONVEYANCE SYSTEMS AND CHEMIGATION SYSTEMS, DITCHES, CANALS, AND SIMILAR IRRIGATION

CONVEYANCES: For continuous addition, add 1 pint SCI-62® for each 7,500-300,000 gallons of water. 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 SCI®-62 in 60,000 gallons of water (1 ppm metallic copper).

TO CONTROL ALGAE OR BACTERIA IN SPRINKLER, DRIP OR OTHER TYPES OF IRRIGATION EQUIPMENT: Use 1 pint SCI-62® per 7,500 to 300,000 gallons of water. Agitation is not required. Do not mix with basic substances. SCI-62® must be applied continuously for the duration of the water application.

FOOT BATHS FOR CATTLE: Prior to treatment, consult a veterinarian to confirm the presence of hoof rot (*Fusobacterium necophorum*). Mix 1 Gallon SCI-62® in 50 gallons of water to use as foot bath. Apply by walking animals through solution for 5-20 minutes per treatment, up to two times per day, or for the period prescribed by a veterinarian. Do not allow the cattle to drink from the foot baths as copper sulfate in these concentrations may be toxic. Keep foot baths clean. Follow the instructions under Storage and Disposal when solutions are discarded at the end of the treatments.

TO CONTROL ALGAE IN RICE FIELDS AND WILD RICE FIELDS: Apply SCI-62® 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 SCI-62® required – do not exceed 5-6 gallons per acre (1 ppm metallic copper). SCI-62® can be metered into the rice field as water is being applied or slug fed into each paddy when water is being held.

TO CONTROL TADPOLE SHRIMP IN RICE FIELDS: Apply to flooded fields anytime the pest appears - from planting time until the seedlings are well rooted and have emerged through the water. Use rate per acre is determined by the water depth and flow. Use 2 gallons SCI-62® per acre as the initial rate at minimum flow and water depth, and 4 gallons SCI-62® per acre as the higher rate when depth and flow are maximum.

EXTENSION OF SHELF LIFE OF FRUITS AND VEGETABLES: Add 1 Gallon SCI-62® 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 water from fruit or vegetables. Fruits and vegetables must remain refrigerated to ensure effectiveness.

Storage and Disposal

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

Storage: Store in a safe place away from PETS AND KEEP OUT OF THE REACH OF CHILDREN. Store away from excessive heat. SCI-62® will freeze. Always keep container closed. Store SCI-62® in its original container only. Bulk SCI-62® shall be stored and handled in stainless steel, fiberglass, polypropylenes, PVCs or plastic equipment. Keep away from galvanized pipe and any nylon storage handling equipment.

Disposal: Excess SCI-62® should be disposed of through use. Do not contaminate lakes, rivers, or streams as this may cause fish kill. 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: Do not re-use empty container. Dispose of containers in a sanitary landfill or by incineration. If burned, stay out of smoke.

LIMITED WARRANTY AND LIMITATION OF REMEDIES

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. This product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied.