

61943-1

03/19/2012

1/10



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Chemical Safety and Pollution Prevention
Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, DC 20460

EPA Reg. Number:

Date of Issuance:

61943-1

MAR 19 2012

Term of Issuance:

Unconditional

Name of Pesticide Product:

**SCI-62® Algicide /
Bactericide**

NOTICE OF PESTICIDE:

- Registration
- Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

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

Mailed to:

Rebecca M. Horton
Registrations by Design, Inc.
P.O. Box 1019
Salem, VA 24153

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

EPA received a label amendment request submitted by email on March 8, 2012. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistration Eligibility Decision for Copper Sulfate Pentahydrate have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Page 1 of 2

Signature of Approving Official:

Date:

MAR 19 2012

Tony Kish, Product Manager (22)
Fungicide Branch/Registration Division/OPP/OCSP (7504P)

MAR 19 2012

2/10

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after 12 months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

The basic Confidential Statement of Formula (CSF) dated 3/8/2012, submitted in connection with reregistration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. This CSF supersedes all CSFs previously accepted for this product.

If you have any questions or comments regarding this letter, please contact Robert Westin at (703) 305-5721 or via e-mail at westin.robert@epa.gov.

Enclosure:

- Label stamped "Accepted"
- PRB Label Review dated 1/9/2012
- Acute Toxicity Review DP357937 dated 11/6/2008
- Product Chemistry Review DP397255 dated 1/4/2012
- Product Chemistry Review DP395324 dated 10/28/2011
- Product Chemistry Review DP390356 dated 6/10/2011

3/10



ACCEPTED
MAR 19 2012
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 61943-1

SCI-62®

Algicide / Bactericide^{1,2}

[For Spas and Hot Tubs¹]

Additional Brand Names: ADVANCED-BLUE® Pool and Spa Products Algicide/Bacteriostat^{1,2} for Pools; Pool-Cide²; ALONG-CIDE², ALGAE-GON 247, AquaDrop, SAFI, AquaPurification

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.)

See back label for 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

¹Algae Control Only

²Non-Public Health Bacteria

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 the National Pesticide Information Center at 1-800-858-7378 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 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. Do not give anything by mouth to an unconscious person.

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.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

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

Non-Flammable
DO NOT FREEZE

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

Manufactured by: CHEM-A-CO., INC.
P.O. Box 1099, Monticello, IN 47960 – 574-583-4368

EPA Reg. No. 61943-1
March 8, 2012 – revised

EPA Est. No. 61943-IN-1
Page 1 of 8 Pages

GENERAL INFORMATION

SCI-62® is 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. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt
- Long Pants
- Chemical-resistant gloves made of any waterproof material. If you want more options, follow the instructions for Category A on an EPA chemical-resistance category selection chart.
- Goggles or face shield
- Shoes plus socks

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. Wash the outside of gloves before removing. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

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.

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 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into 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 to non-target aquatic organisms.

The use of this product may pose a hazard to certain federally designated endangered species known to occur in specific areas of the following counties and its respective states: Solano (CA); Lawrence, Wayne, Hancock (TN); Lauderdale, Limestone, Madison (AL); Grayson, Smyth, Scott, Washington, Lee (VA). Before using this product, refer to the appropriate EPA Bulletin specific to your area. This Bulletin identifies areas where the use of this pesticide is prohibited, unless specified otherwise.

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. Only apply by properly metered equipment to listed sites utilizing ground, aerial, chemigation or boat application methods. 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. Do not apply SCI-62® 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. Permits for the use of this product in public water may be required. Check with local authorities.

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.

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.

AGRICULTURAL USE REQUIREMENTS

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), 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 48 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, shoes plus socks, chemical-resistant gloves made of any waterproof material, and protective eyewear.

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 enter or allow others to enter treated area until sprays have dried.

Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) must wear: long-sleeved shirt, long pants, shoes plus socks, chemical-resistant gloves made of any waterproof material, and protective eyewear.

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.

For groundboom application: Do not apply with a nozzle height greater than 4 feet above the crop canopy.

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 by pouring SCI-62® directly from the container 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 recur.

Feedlot Runoff Lagoons: Add a portion of the required dosage of SCI-62® by pouring directly from the container 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® directly 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 metering pump, subsurface hoses or from a properly equipped moving boat into the lakes, ponds, reservoirs or irrigation canals. SCI-62® should be poured directly from the container into swimming pools. When applying from boat, use minimal speed to allow the prop wash to disperse and mix the product into the treated waters. 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

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.

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 5.5 gallons per acre foot (1 ppm metallic copper). SCI-62® can be metered into the rice field as water is being applied.

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. For a 3-inch flood depth, apply 3.25 gallons per acre. For 6-inch flood depth, use 6.5 gallons per acre. Do not exceed 13 gallons SCI-62® per acre foot of water (2.5 ppm metallic copper).

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 solution 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.

Pesticide Storage: Store in a safe place away from PETS AND KEEP OUT OF THE REACH OF CHILDREN. Store above 40°F. SCI-62® will freeze. Always keep container closed. Store SCI-62® in its original container only. Keep away from galvanized pipe and any nylon storage or handling equipment.

Pesticide Disposal: Excess SCI-62® must 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 Disposal: [For Containers ≤ 5 Gal] Nonrefillable container. Do not reuse or refill this container. Triple rinse all containers prior to disposal and then offer for recycling, if available, or puncture and dispose of in an approved manner, or dispose by incineration if allowed by local and state authorities. If disposal is by incineration, stay out of smoke. 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 ¼ 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 two more times.

Container Disposal: [For Containers > 5 Gal] Nonrefillable container. Do not reuse or refill this container. Triple rinse all containers prior to disposal and then offer for recycling, if available, or puncture and dispose of in an approved manner, or dispose by incineration if allowed by local and state authorities. If disposal is by incineration, stay out of smoke. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap and tighten closures. 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 the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

[For small (consumer) packaging:

Storage and Disposal

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

Pesticide Storage: Store in a safe place away from PETS AND KEEP OUT OF THE REACH OF CHILDREN. Store above 40°F. SCI-62® will freeze. Always keep container closed. Store SCI-62® in its original container only. Keep away from galvanized pipe and any nylon storage or handling equipment.

Pesticide Storage & Container Handling: *If empty* – Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. *If partly filled* – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

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. Seller makes no warranty for the performance of product which has been frozen.

[Lot no. to be added at production.]

