



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

June 27, 2024

Casey Pehrson  
Earth Science Laboratories, Inc.  
c/o Exponent, Inc.  
Electronic Transmittal: cpehrson@exponent.com

Subject: Label Amendment – Changes Required by the Copper Compounds Amended  
Interim Registration Review Decision  
Product Name: POOL SHIELD  
EPA Registration Number: 64962-9  
Received Date: 7/27/2022  
Decision Number: 586307

Dear Casey Pehrson:

The amended label 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 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.

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Copper Compounds Amended Interim Decision, and has concluded that your submission is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. Pursuant to 40 CFR 156.10(a)(6) 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 12 months from the date of this letter. After 12 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 FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). 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, FIFRA section 12(a)(1)(B). 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.

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 Megan Snyderman by phone at 202-566-0639, or via email at [snyderman.megan@epa.gov](mailto:snyderman.megan@epa.gov).

Sincerely,

A handwritten signature in cursive script, appearing to read "Kimberly Whitesell".

Kimberly Whitesell  
Senior Environmental Protection Specialist  
Reevaluation Branch  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure: Stamped Label

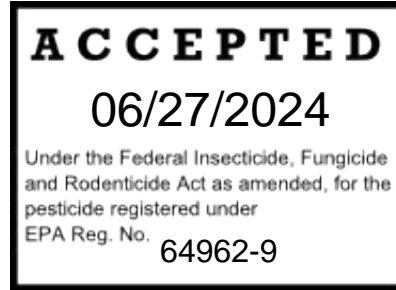
# POOL SHIELD

[ABN: ALGAE SHIELD]

**Algicide/Bactericide\***  
**For Pools, Spas and Hot Tubs**

[ROOM FOR MARKETING STATEMENTS]

Bactericide\* - Nonpublic Health Bacteria



## ACTIVE INGREDIENT

Copper Sulfate Pentahydrate\*\* (CAS No. 7758-99-8) .....19.8%

**OTHER INGREDIENTS** ..... 80.2%

**TOTAL** ..... 100.0%

\*\*Metallic Copper ..... 5%

This product weights 9.9 lbs. per gallon (1.188 kg/L)

**KEEP OUT OF REACH OF CHILDREN**

## WARNING - AVISO

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

[See [side] [back] [panel] [label booklet] for [complete] [additional] [First Aid] [Precautionary Statements,]  
[Directions For Use] and [Storage Disposal].

MFG BY:  
Earth Science Laboratories, Inc.  
903 North 47<sup>th</sup> St., Suite 105  
Rogers, AR 72756  
Phone: 800-257-9283

EPA Reg. No.: 64962-9  
EPA Est. No. XXXXX-XX-XXX  
Batch No.:

**NET CONTENTS:** \_\_\_\_\_ [fl. oz.][Gallons]

<b>FIRST AID</b>	
<b>IF IN EYES</b>	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>IF SWALLOWED</b>	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 a poison control center or doctor. Do not give anything to an unconscious person.
<b>IF ON SKIN OR CLOTHING</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
<b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact INFOTRAC 1-800-535-5053 for emergency medical treatment.	

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

**WARNING:** Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield or safety glasses), long sleeved shirt, long pants, shoes, socks and chemical-resistant gloves made of any waterproof material. Some materials that are chemical-resistant to this product are polyvinyl chloride, polyethylene and viton. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

## **ENVIRONMENTAL HAZARDS**

This product is toxic to fish.

## **DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. For use in pools, spas and hot tubs, do not apply this product in a way that will contact adults, children or pets.

POOL SHIELD is used to control algae and to suppress nonpublic health bacteria and bacteria that cause odor problems in pools, spas and hot tubs.

Treated pool effluent should not be discharged where it will drain into lakes, streams, ponds or public water.

### **USE IN CONTROL ALGAE, NONPUBLIC HEALTH BACTERIA, AND BACTERIA THAT CAUSE ODOR PROBLEMS IN SWIMMING POOLS, SPAS AND HOT TUBS**

The product may be applied throughout the year but for best results apply in the late spring or early summer when algae first appear

### **Discharge Directions for [Commercial] and [Residential] [Pool,] [Spa,] [Hot Tub,] and [Fountain] Uses**

Before draining a treated [pool,] [spa,] [hot tub,] or [fountain] contact your local sanitary sewer and storm drain authorities and follow their discharge instructions. Do not discharge treated pool or spa water to any location that flows to a gutter, storm drain or natural water body unless discharge is allowed by state and local authorities.

## FOR CONTROL OF ALGAE

**FOR POOLS:** To control algae, or where visible algae are present, apply at the rate of 2 fluid ounces of POOL SHIELD per 1,000 gallons of water (20 fluid ounces per 10,000 gallons).

**FOR SPAS AND HOT TUBS:** Apply at the rate of 6 mL of POOL SHIELD per 100 gallons of water using supplied measuring cup.

These dosages will yield a rate of 0.9 ppm metallic copper

Test the copper level every 14 days using a standard commercial swimming pool copper test kit. Add POOL SHIELD to raise level back to 0.9 ppm {(see tables)}. The amount of POOL SHIELD to be added is proportional to the starting concentration and volume of water. Do not exceed 1.0 ppm metallic copper.

### [Optional tables]

#### MAINTAINING METALLIC COPPER CONCENTRATION IN POOLS AND SPAS

The dosages are variable and depend upon algae species, water hardness, water temperature, and amount of algae present. Preferably, the water should be clear with temperature above 60° F [(15.6° C)]. Higher dosages are required at lower water temperatures, higher algae concentrations, and for hard waters.

#### MAINTAINING METALLIC COPPER CONCENTRATION IN POOLS

Pool Volume (gallons)	7,000	8,000	9,000	10,000	11,000	12,000	13,000	14,000
Measured Metallic Copper Level in Pool	ADDITIONAL FLUID OUNCES OF POOL SHIELD ADDED TO MAINTAIN CONTROL							
0.9 ppm	0	0	0	0	0	0	0	0
0.8 ppm	1	1	2	2	2	2	2	3
0.7 ppm	3	3	4	4	5	5	5	6
0.6 ppm	4	5	5	6	6	7	8	9
0.5 ppm	6	7	7	8	10	10	11	12
0.4 ppm	8	9	10	11	13	13	14	15
0.3 ppm	9	10	12	13	15	15	16	18
0.2 ppm	11	12	14	15	17	18	20	21
0.1 ppm	12	14	15	17	19	20	22	24

#### MAINTAINING METALLIC COPPER CONCENTRATION IN SPAS

Spa Volume (gallons)	100	200	300	400	500	700	800	900	1,000
Measured Metallic Copper Level in Spa	ADDITIONAL MILLILITERS OF POOL SHIELD ADDED TO MAINTAIN CONTROL								
0.9 ppm	0	0	0	0	0	0	0	0	0
0.8 ppm	1	1	2	3	3	4	5	6	6
0.7 ppm	1	3	4	5	6	9	10	11	13
0.6 ppm	2	4	6	8	9	13	15	17	19

<b>0.5 ppm</b>	3	5	8	10	13	18	20	23	25
<b>0.4 ppm</b>	3	6	9	13	16	22	25	28	32
<b>0.3 ppm</b>	4	8	11	15	19	27	30	34	38
<b>0.2 ppm</b>	4	9	13	18	22	31	35	40	44
<b>0.1 ppm</b>	5	10	15	20	25	35	40	45	51]

#### **FOR PREVENTION OF ALGAE**

Application should be made before visible algae appear. Apply at the rate of 1 fluid ounce of POOL SHIELD per 1,000 gallons of water. This will yield a rate of 0.45 ppm metallic copper. Repeat a maintenance dosage of 1 fluid ounce of POOL SHIELD per 1,000 gallons of water once a month to maintain control.

#### **[APPLICATION AND HANDLING EQUIPMENT**

Application, handling or storage equipment MUST consist of fiberglass, PVC, polypropylene, viton, corrosion resistant plastics or stainless steel. Never use mild steel, nylon, brass or copper around POOL SHIELD. Always rinse and clean equipment thoroughly each night with plenty of fresh, clean water.]

*{For Residential uses - Containers with capacities less than 5 gallons}*

### **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store tightly closed in original container in a safe place away from pets and keep out of the reach of children. Store away from excessive heat. Do not allow to freeze. Always store above 32° F. Freezing may cause product separation. Keep away from galvanized pipe, and any nylon storage or handling equipment.

#### **PESTICIDE DISPOSAL AND CONTAINER HANDLING:**

Nonrefillable container. Do not reuse or refill this container. IF EMPTY: Offer for recycling if available or discard in a sanitary landfill. IF PARTLY FILLED: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

*{For Commercial Uses}*

### **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store tightly closed in original container in a safe place away from pets] and keep out of the reach of children. Store away from excessive heat. Do not allow to freeze. Always store above 32° F. Freezing may cause product separation. Keep away from galvanized pipe, and any nylon storage or handling equipment.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess mixture or rinsate is a violation of federal law. If these wastes cannot be disposed o 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:**

**[Containers with capacities less than or equal to 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  $\frac{1}{4}$  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 or puncture and dispose of in a sanitary landfill, or by incineration.]

**[Containers with capacities greater than 5 gallons:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least 1 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 2 more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

**[Refillable Containers:** 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 mix tank. Fill the container about 10% 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 2 more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

### **IMPORTANT READ BEFORE USING LIMITED WARRANTY AND LIMITATION OF REMEDIES**

Read the entire Directions for Use, Limited Warranty and Limitation of Remedies (including limitations on liability) before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

The Directions for Use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. 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 Algae Products, LLC.

To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

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 instruction, or under conditions not foreseeable to the seller. To the extent consistent with applicable law, the seller shall not 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. Seller makes no warranty for product which has been frozen.





*{OPTIONAL MARKETING STATEMENTS}*

[Treats and prevents algae guaranteed]  
[Kills Black, Mustard, Green, Blue-green, Pink]  
[Algae Killing and Prevention]  
[Algae free guarantee]  
[Effectively kills and prevents algae]  
[Kills all forms of algae]

[Complete pool and spa care system]  
[Suitable for all pools]  
[Ideal for above ground pools]  
[Specially formulated for use in above ground pools]  
[Compatible with all pool surfaces]  
[Compatible with chlorine, bromine and salt systems]

[Effective, Affordable and Easy]  
[Apply just every 2-weeks]  
[Gentle on equipment]  
[Easy to Use]  
[Easy to apply liquid formula]  
[No dust or vapors to breath]  
[Easy application]

[Rapidly dispersing]  
[Rapid dispersion]  
[Self-dispersing]  
[Non-Foaming & Non-Staining]  
[No pre-mixing]  
[Low dosage]  
[No settling]  
[No staining]  
[Less staining]  
[Ideal for low flow applications]  
[Ideal for winterizing pools]  
[Reduce chlorine usage]  
[Chlorine reducer]  
[Not dissipated by sunlight]  
[No taste or odor]  
[Tasteless and odorless]  
[Made in the USA]

[Swim immediately after application]  
[Will not fade swimsuits]  
[Will not fade liners]