



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

93234-1

Date of Issuance:

10/6/25

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

UltraPAC 2773

Name and Address of Registrant (include ZIP Code):

Lisa M. Amadio
Principal Regulatory Consultant
USALCO LLC
Electronic Transmittal: lamadio@ramboll.com

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials 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 under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

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.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Luisa C. Samalot-Freire, Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510M)
Office of Pesticide Programs
U.S. Environmental Protection Agency

Date:

10/6/25

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 93234-1."
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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) lists 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 Assurance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 5/7/2025
- Alternate CSF 1 dated 5/7/2025
- Alternate CSF 2 dated 5/7/2025
- Alternate CSF 3 dated 5/7/2025
- Alternate CSF 4 dated 5/7/2025
- Alternate CSF 5 dated 5/7/2025
- Alternate CSF 6 dated 5/7/2025
- Alternate CSF 7 dated 5/7/2025
- Alternate CSF 8 dated 5/7/2025
- Alternate CSF 9 dated 5/7/2025
- Alternate CSF 10 dated 5/7/2025
- Alternate CSF 11 dated 5/7/2025

If you have any questions, please contact Carlos Corona via email at Corona.Carlos@epa.gov.

Enclosure: Stamped product Label

UltraPAC® 2773

ACTIVE INGREDIENT:

*Copper sulfate pentahydrate (CAS 7758-99-8) 0.5%

OTHER INGREDIENTS: 99.5%

TOTAL: 100.0%

*0.125% Metallic Copper Equivalent

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.
In 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 mouth-to-mouth if possible.• Call a poison control center or doctor for the 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.
If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have a 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 by mouth to an unconscious person.
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) 282-5322 for emergency medical treatment information.	

{See side panel for specific pesticide use directions.}

Net [{Contents}] {Weight}:

Lot Number:

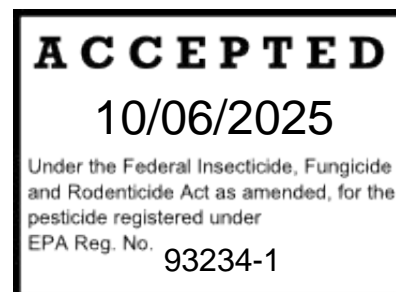
Batch Number:

[{NOT FOR SALE OR USE AFTER}] (Expiration Date) {Exp. Date} {Expiry Date}]:



{Manufactured by:} USALCO LLC, 2601 Cannery Ave, Baltimore, MD 21226

TEL 410-354-0100 {FAX 410-354-1021}



PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. 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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators, and other handlers must wear: long-sleeve shirt, long pants, shoes and 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. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

Consult MSDS for additional information

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

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. Do not contaminate water when disposing of equipment wash waters or rinsate.

(Note to Reviewer (General Considerations): Unit abbreviations can be spelled out. When choosing optional text, appropriate punctuation can be inserted or deleted. Equivalent use dilution ratios may be substituted within the directions. Equivalent use dilution ratios may be substituted within the directions.)

{MARKETING}

(Note to Reviewer: Marketing text is considered optional. Commas and the words "and" "or" can be added to phrases to make text grammatically correct.)

- UltraPAC 2773 is a flocculant-algicide blended product which contains Copper Sulfate as the active ingredient to inhibit algae growth.
- UltraPAC 2773 contains aluminum sulfate {and polymer} which are used to coagulate suspended and/or colloidal particles in a liquid to affect a liquid-solid separation.
- UltraPAC 2773 is best used to inhibit algae regrowth inside a water plant, once the initial growth has been removed chemically or physically.
- UltraPAC 2773 is intended exclusively for use in impounded raw water which is being immediately treated for public consumption inside the water plant. Do not add to lakes, reservoirs, or holding ponds

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 requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

{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 UltraPAC 2773. Always rinse equipment free and clean of UltraPAC 2773 each night with plenty of fresh, clean water. Always store UltraPAC 2773 above 32 °F. Freezing may cause product separation. Seller makes no warranty of the performance of product which has been frozen.}

{[Maximum application is 0.308 milliliters product per liter]}

{MAXIMUM APPLICATION IS 0.308 MILLILITERS OF PRODUCT PER LITER OF WATER.}

(Note to Reviewer: At least one of the optional directions below MUST appear on the final label.)

{This product is for use in treating waters segregated for Municipal Water Utilities for eventual use as drinking water. NOTE: Waters destined for use as drinking water must receive additional and separate potable water treatment. The metallic copper applied to these waters must not exceed 1 ppm (4 ppm copper sulfate pentahydrate). Water hardness, temperature of the water, the type and amount of vegetation to be controlled, and the amount of water flow are to be considered in using UltraPAC 2773 to control algae. Begin treatment soon after algae growth has started. If treatment is delayed until a large amount of algae is present, larger quantities of UltraPAC 2773 will be required. Algae are difficult to control with UltraPAC 2773 when water temperatures are low or water is hard. Larger quantities of UltraPAC 2773 will be required to kill and control algae in water which is flowing rather than a body of stagnant water. If possible, curtail the flow of water before treatment and hold dormant for approximately three (3) days after treatment or until the algae have begun to die. It is usually best to treat algae on a sunny day when the heavy mats of filamentary algae are most likely to be floating on the surface where it can be sprayed directly. If there is some doubt about the concentration to apply, start with a lower concentration and increase the concentration until the algae is killed or the maximum allowable use rate is reached. Treatment of algae can result in oxygen loss from decomposition of dead algae. The loss can cause fish suffocation. Therefore, to minimize this hazard, treat one-third to one-half of the water area in a single operation and wait 14 days between treatments. Begin treatments along the shore and proceed outward in bands to allow fish to move into untreated water.}

{CALCULATIONS FOR THE AMOUNT OF WATER IMPOUNDED AND FOR THE AMOUNT OF UltraPAC 2773 TO BE USED:

Calculate water volume as follows: 1) Obtain surface area by measuring of regular shaped ponds or mapping of irregular ponds or by reference to previously recorded engineering data or maps. 2) Calculate average depth by sounding in a regular pattern and taking the mean of these readings or by reference to previously obtained data. 3) Multiply surface area in feet by average depth to obtain cubic feet of water volume. 4) Multiply surface area in acres by average depth in feet to obtain total acre-feet of water volume.}

{CALCULATE WEIGHT OF WATER TO BE TREATED AS FOLLOWS:

- 1) Multiply volume in cubic feet by 62.44 to obtain total pounds of water, or
- 2) Multiply volume in acre feet by 2,720,000 to obtain pounds of water.}

{CALCULATIONS OF ACTIVE INGREDIENT TO BE ADDED:

To calculate the amount of UltraPAC 2773 needed to achieve the labeled concentration, multiply the weight of water by the label concentration of UltraPAC 2773. Since labeled concentrations are normally given in parts per million (ppm), it will first be necessary to convert the value in parts per million to a decimal equivalent.

For example, 8 ppm is the same as 0.000008 when used in this concentration. Therefore, to calculate the amount of UltraPAC 2773 to treat 1 acre-foot of water with 8 ppm UltraPAC 2773, the calculation would be as follows:

$$0.000008 \times 2,720,000 = 21.75 \text{ lbs} \times 1 \text{ gal UltraPAC 2773/9.84} = 2.2 \text{ gal UltraPAC 2773}$$

{UltraPAC 2773 is injected in the first section of the water treatment plant. Normal injection locations include the rapid mix chamber or any similar device for mixing coagulant chemicals. This chamber then feeds the dosed water into the clarifiers or settling basins of the water plant. UltraPAC 2773 can also be injected at various locations along the transfer pipe which delivers raw water into the water plant. UltraPAC 2773 is not to be injected into water impoundments located outside the water plant, such as lakes, ponds, or reservoirs.}

{CALCULATIONS FOR THE AMOUNT OF UltraPAC 2773 TO BE USED:

Calculations for the amount of water volume is based on the municipality's million gallons per day (MMg) water usage. Jar testing of the raw water to be treated will indicate the optimum dosage of the aluminum sulfate/polymer flocculant in parts per million (ppm) which is the primary function of UltraPAC 2773. Each ppm flocculant delivers 0.005 ppm copper sulfate pentahydrate. The parts per million indicated in testing is multiplied by 0.5% (0.005) to obtain the parts per million copper sulfate pentahydrate. The 0.005 ppm copper salt (25.45 wt% metallic copper) contains 0.00127 ppm elemental copper for suppressing algae growth inside the water plant. For example, if jar testing shows that 50 ppm of flocculant is the optimum dosage for coagulation, then UltraPAC 2773 will also deliver 0.25 ppm of copper sulfate pentahydrate. UltraPAC 2773 thus provides algae inhibition by the copper sulfate as its secondary function. The 0.25 ppm of copper salt (25.45 wt% metallic copper) contains 0.0636 ppm elemental copper for suppressing algae.}

(Note to Reviewer: This table is optional.)

COPPER SULFATE REQUIRED FOR TREATMENT OF DIFFERENT GENERA OF ALGAE The genera of algae listed below are commonly found in waters of the United States. Always consult State Fish and Game Agency before applying this product to municipal waters.				
ORGANISM	0.25 – 0.50 ppm	0.5 -1.0 ppm	1.0- 1.5 ppm	1.5 -2.0 ppm
Cyanophyceae (Blue-green)	Anabaena	Cylindrospermum	Nostoc	Calothrix
	Anacystis	Oscillatoris	Phormidium	Symploca
	Aphanizomenon	Plectonema		
	Gloeotrichia			
	Gomphosphaeria			
	Potycystis			
	Rivularia			
Chlorophyceae (Green)	Closterium	Botryococcus	Chlorella	Ankistrodesmus
	Hydrodictyon	Cladophora	Crucigenia	Chara
	Spirogyra	Coelastrum	Desmidium	Nilella
	Ulothrix	Drapamaldia	Golenkinia	Scenedesmus
		Enteromorpha	Oocystis	
		Gloeocystis	Palmella	
		Microspora	Pithophora	
		Tribonema	Staurostrum	
		Zygnema	Tetraedron	
	Asterionella	Gomphonema	Achnanthes	
	Fragilaria	Nitzschia	Cymbella	
Diatomaceae (Diatoms)	Melosira	Stephanodiscus	Nudum	
	Navicula	Synedra		
		Tabellaria		
	Dinobryon	Ceratium	Chlamydomonas	Eudorina
	Synura	Cryptomonas	Hawmatococcus	Pandorina
Protozoa (Flagellates)	Uroglena	Euglena	Peridinium	
	Volvox	Glenodinium		
		Mallomonas		
[0.25 - 0.50 ppm CuSO ₄ = 101 – 202 ml/min per MMgpd* 0.50 - 1.0 ppm CuSO ₄ = 202 – 405 ml/min per MMgpd* 1.0 - 1.5 ppm CuSO ₄ = 405 – 607 ml/min per MMgpd* 1.5 - 2.0 ppm CuSO ₄ = 607 – 809 ml/min per MMgpd* *Calculations based on UltraPAC 2773 containing 0.5% copper sulfate.]				

STORAGE AND DISPOSAL

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

{PESTICIDE} STORAGE: Keep pesticide in original container. Do not put concentrate or dilutions of concentrate in food or drink containers.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. Open burning and dumping is prohibited. If these wastes cannot be disposed of 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: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Empty drums in accordance with use directions. 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 ten 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. Reseal and offer for reconditioning or recycling. Consult federal, state or local disposal authorities for approved alternative methods.

EPA Reg. No.:93234-X

EPA Est. No.:

Alternate Brand Names:

UltraPAC® 2711

UltraPAC® 2712

UltraPAC® 2713

UltraPAC® 2718

UltraPAC® 2725

UltraPAC® 2727

Aqualum® 02418

Aqualum® 02465

Aqualum® 02471

Aqualum® 02497

Aqualum® 2456

Aqualum® 2606

{SPANISH ADVISORY STATEMENTS}

(Note to Reviewer: This statement is optional except when used on labels with agricultural uses.)

{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.}

(Note to Reviewer: This statement is optional.)

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.

Optional logos:

