



8/22/2013

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

Solvay Chemicals, Inc.  
 c/o Georgia Anastasiou  
 Lewis & Harrison, LLC  
 122 C Street, NW, Suite 505  
 Washington, DC 20001

**AUG 22 2013**

OFFICE OF CHEMICAL SAFETY  
 AND POLLUTION PREVENTION

**Subject:** Label Amendment to revise the directions for use for small size water bodies; revise the storage and disposal statement, add optional marketing claims, add a warranty statement, and create commercial and residential sublabels.  
 PAK 27 Algacide  
 EPA Reg. No.: 68660-9  
 Your submission dated May 21, 2013  
 Decision Number: 479185

Dear Ms. Anastasiou:

The amendment referred to above submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(c)(5), is acceptable provided that you:

- 1) Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2) Submit two (2) copies of your final printed labeling before you release the product for shipment. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Should you have any questions, you may contact Mr. Colin Walsh directly at (703) 308-0298 or via email at [walsh.colin@epa.gov](mailto:walsh.colin@epa.gov).

Sincerely,

Linda A. Hollis, Chief  
 Biochemical Pesticides Branch  
 Biopesticides and Pollution  
 Prevention Division (7511P)

7511P					
Walsh					
8/21/13					

2/12

*Bold, italicized text is information for the reviewer and considered not part of the label*

Master Label

# PAK<sup>®</sup> 27 Algaecide

**Sub-label A: Commercial Use (pages 2-6)**

**Sub-label B: Residential Use (pages 7-11)**

ACTIVE INGREDIENT:	
Sodium Carbonate Peroxyhydrate .....	85.0%
OTHER INGREDIENTS: .....	15.0%
Total .....	100.0%

**KEEP OUT OF REACH OF CHILDREN  
DANGER/PELIGRO**

Made in the USA

Manufactured and Distributed by: SOLVAY CHEMICALS, INC.  
3333 Richmond Avenue, Houston TX 77098 USA  
(713) 525-6500

[For [Transport] Emergency, call CHEMTREC<sup>®</sup> (800) 424-9300]

EPA No. 68660-9

EPA Est. No. 68660-TX-001

Net Content: \_\_\_\_\_ pounds (\_\_\_\_\_ kgs)

Lot. No.

## ACCEPTED

AUG 22 2013

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

68660-9

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**Sub-Label A: Commercial Use**

# PAK<sup>®</sup> 27 Algaecide

ACTIVE INGREDIENT:  
 Sodium Carbonate Peroxyhydrate .....85.0%  
 OTHER INGREDIENTS: ..... 15.0%  
 Total .....100.0%

**KEEP OUT OF REACH OF CHILDREN  
 DANGER/PELIGRO**

### FIRST AID

<p><b>IF IN EYES:</b></p> <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>IF ON SKIN OR CLOTHING:</b></p> <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>IF INHALED:</b></p> <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p><b>IF SWALLOWED:</b></p> <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Drink promptly large quantities of water.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  <b>HOT LINE NUMBER 24 Hour emergency call (800) 424-9300</b></p>
<p><b>NOTE TO PHYSICIAN</b>          Probable mucosal damage may contraindicate the use of gastric lavage.</p>

[See [side][and][back] panel for [First Aid] [and] [Directions]]  
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EPA No. 68660-9  
 Net Content: \_\_\_\_\_ pounds (\_\_\_\_\_ kgs)

EPA Est. No. 68660-TX-001  
 Lot. No.

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*Bold, italicized text is information for the reviewer and considered not part of the label*

**Sub-Label A: Commercial Use**

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER: CORROSIVE.** Causes irreversible eye damage and causes skin burns. Harmful if swallowed or inhaled. Do not get in eyes, on skin, or clothing. Wear goggles or face shield and rubber gloves when handling this product. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. When prolonged or frequently repeated contact could occur, use chemically resistant gloves and full body clothing

**PHYSICAL AND CHEMICAL HAZARDS**

Oxidizing agent. Contact with combustible materials may cause fire. Wet product decomposes exothermically and may cause combustion of organic materials. Pressure may increase due to decomposition in confined spaces or containers.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds. When applying PAK 27 to water bodies, avoid solid particles from falling on nearby ground where birds and feed may be present. Undissolved particles of sodium carbonate peroxyhydrate may be corrosive to beaks of birds.

***For container sizes 50 lbs or greater***

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of U.S. EPA. For additional information, refer to the product Material Safety Data Sheet.

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**Sub-Label A: Commercial Use**

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Note to Reviewer:**

***For large size water bodies, the following label instructions will be used.***

For control of blue-green algae in lakes, ponds, drinking water reservoirs, irrigation, drainage and conveyance ditches, canals, laterals, estuaries, bayous, lagoons, water gardens and water features, impounded water and waste water and aquaculture.

Apply 3.0 to 100 pounds per acre - foot (9.2 to 306.9 pounds/ million gallons) of water (equivalent to 0.3 to 10.2 ppm hydrogen peroxide) by broadcasting or use of a mechanical spreader.

**Note:** Algae control is more easily achieved if treated soon after growth starts. Larger amounts of product may be needed to treat heavier blooms. As little as 2.5 pounds per acre - foot could be used for algaestatic treatment.

**Water Treatment  
MAXIMUM Dosage Rate by Volume**

<b>Gallons</b>	200	500	750	1000	2000	10,000	100,000	325,851
<b>Dosage</b>	34g	68g	100g	135g	270g	3 lb.	30 lb.	100 lbs
<b>Acre-Ft</b>	1	9	15	30	60	75	100	
<b>Dosage lbs</b>	100	900	1500	3000	6000	7500	10,000	

1LB= 454 grams (g)      1 Acre-Foot = 325851 gallons

**Precaution:** Decaying algae can deplete dissolved oxygen which can lead to fish kill, if excessive. Apply with 8 to 10 hours of daylight remaining. Do not reapply within 48 hours. If treating a large lake or heavy bloom, treat 1/3 to 1/2 of the area and wait 2 to 3 days before treating remainder of water. Consult with the State agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is needed.

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*Bold, italicized text is information for the reviewer and considered not part of the label*

**Sub-Label A: Commercial Use**

**Note to Reviewer:**

**For small size water bodies, the following label instructions will be used.**

For control of algae in [ponds], [water gardens], [water features], [standing water], [watering tanks], [storage tanks] and [water collectors].

**For spot treatment:** Apply this product directly over the infested area. Re-treatment is required when heavy growth occurs.

**Preventative Dose:** Dependent on algae type, apply 1 to 9 tablespoons per 1,000 gallons of water by broadcast, spreader or spray dissolved solution. Apply treatments twice weekly for best results.

**For severe algae bloom or infestation:** Treat when growth first begins to appear if possible. Apply 1 to 9 tablespoons per 1,000 gallons of water by broadcast, spreader or spray dissolved solution. Re-treat areas if re-growth or new growth begins to appear. Allow 2 – 3 days between subsequent treatments.

Broadcast this product directly on to the water surface, from shore or dissolve and spray any algae matted at surface. Water features equipped with an aerator, or a waterfall that creates turbulence facilitates rapid and adequate mixing when treating entire water volume.

**SMALL SIZE WATER BODY DOSAGE CHART**

Pond Size	String Algae Treatment Rates	Planktonic [Pea-soup] Algae Treatment Rate- Heavy Growth	Planktonic [Pea-soup] Algae Treatment Rate- Maintenance Dose
50 gallons	1.25 tsp	1.25 tsp	0.25 tsp
100 gallons	2.5 tsp	2.5 tsp	0.50 tsp
500 gallons	4 TBSP	4 TBSP	1 TBSP
1,000 gallons	9 TBSP	9 TBSP	2 TBSP
10,000 gallons	3 pounds	3 pounds	¾ pound

1 gram = 0.035 ounces 1 ounce = 2 (TBSP)  
tsp = teaspoon TBSP = tablespoon

Check pH levels before applying product. Product can raise pH levels. Apply early in the morning and turn off circulation during treatment. Application should be on affected areas, fountains or circulation can be turned back on after 20 minutes. Recheck pH as necessary.

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**Sub-Label A: Commercial Use**

**STORAGE AND DISPOSAL**

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL

**STORAGE:** Store in original, closed container in a dry location away from heat and out of direct sunlight. Keep away from combustible material. Do not return unused product to container.

**PESTICIDE DISPOSAL:** 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.

**CONTAINER HANDLING:**

**50 lb Bags/Sacks:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty sack [bag] into application equipment. Then offer for recycling if available or dispose of empty sack [bag] in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**2000 lb Bulk Bag:** Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration, or if allowed by state and local authorities by burning. If burned, stay out of smoke. If bulk bag is contaminated and cannot be reused, dispose of it in the manner required for its liner.

**Plastic Containers (all sizes):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available or puncture and dispose of in sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**[WARRANTY DISCLAIMER**

To the extent consistent with applicable law neither the manufacturer nor the seller makes any warranty, expressed or implied concerning the use of this product other than indicated on the label. To the extent consistent with applicable law buyer assumes risk of use of this material when such use is contrary to label instructions. Read and follow the label directions].

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**Sub-Label B: Residential Use**

# PAK<sup>®</sup> 27 Algaecide

ACTIVE INGREDIENT:  
 Sodium Carbonate Peroxyhydrate ..... 85.0%  
 OTHER INGREDIENTS: ..... 15.0%  
 Total ..... 100.0%

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### FIRST AID

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<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p><b>HOT LINE NUMBER 24 Hour emergency call (800) 424-9300</b></p>
<p><b>NOTE TO PHYSICIAN</b></p> <p>Probable mucosal damage may contraindicate the use of gastric lavage.</p>

[See [side][and][back] panel for [First Aid] [and] [Directions]]  
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**Sub-Label B: Residential Use**

**PRECAUTIONARY STATEMENTS**

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10/12

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**Sub-Label B: Residential Use**

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Note to Reviewer:**

**For small size water bodies, the following label instructions will be used.**

For control of algae in [ponds], [water gardens], [water features], [standing water], [watering tanks], [storage tanks] and [water collectors].

**For spot treatment:** Apply this product directly over the infested area. Re-treatment is required when heavy growth occurs.

**Preventative Dose:** Dependent on algae type, apply 1 to 9 tablespoons per 1,000 gallons of water by broadcast, spreader or spray dissolved solution. Apply treatments twice weekly for best results.

**For severe algae bloom or infestation:** Treat when growth first begins to appear if possible. Apply 1 to 9 tablespoons per 1,000 gallons of water by broadcast, spreader or spray dissolved solution. Re-treat areas if re-growth or new growth begins to appear. Allow 2 – 3 days between subsequent treatments.

Broadcast this product directly on to the water surface, from shore or dissolve and spray any algae matted at surface. Water features equipped with an aerator, or a waterfall that creates turbulence facilitates rapid and adequate mixing when treating entire water volume.

**SMALL SIZE WATER BODY DOSAGE CHART**

Pond Size	String Algae Treatment Rates	Planktonic [Pea-soup] Algae Treatment Rate-Heavy Growth	Planktonic [Pea-soup] Algae Treatment Rate-Maintenance Dose
50 gallons	1.25 tsp	1.25 tsp	0.25 tsp
100 gallons	2.5 tsp	2.5 tsp	0.50 tsp
500 gallons	4 TBSP	4 TBSP	1 TBSP
1,000 gallons	9 TBSP	9 TBSP	2 TBSP
10,000 gallons	3 pounds	3 pounds	¾ pound

1 gram = 0.035 ounces 1 ounce = 2 (TBSP)  
tsp = teaspoon TBSP = tablespoon

Check pH levels before applying product. Product can raise pH levels. Apply early in the morning and turn off circulation during treatment. Application should be on affected areas, fountains or circulation can be turned back on after 20 minutes. Recheck pH as necessary.

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### **Sub-Label B: Residential Use**

#### **KEY WATER TREATMENT FACTORS AND CONSIDERATIONS**

- Wait several hours before using other [brand] water additives, such as bacteria or enzyme products.
- Do not tank mix with aquatic herbicides or algaecides containing copper or bromides. Apply this product at least one day prior to other products.
- Remove organic matter that has risen to the surface. Unremoved organic matter can stimulate algae re-growth.
- Non-target plants will suffer contact burn if undiluted granules are accidentally spilled on them. Do not apply where grass, ornamentals and other foliage could be affected.
- Excessive decaying algae can deplete dissolved oxygen which can lead to fish kill. Apply with 8 to 10 hours of daylight remaining. Do not reapply within 48 hours. If treating a larger pond or heavy algae growth, treat 1/3 of the area and wait 2 to 3 days before treatment remainder of water. Consult with the state agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is needed.
- Effects of product during treatment are bubbling (not foaming), bleaching or discoloration of algae and floating organic matter.
- Successful treatments are when material is in direct contact with algae.
- Dissolved product or liquid treatments do not sink as quickly as the granular product.
- A second application may be necessary when surface algae mats are formed and there are bottom growing or suspended algae in the pond.
- Warmer months require more frequent treatments.

#### **STORAGE AND DISPOSAL**

**STORAGE:** Store in original container and place in a locked storage area.

**PESTICIDE DISPOSAL:** 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.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. **If empty:** 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.

**Sub-Label B: Residential Use**

**Optional Marketing Claims**

- [This product] [product name] can be used on a regular basis to prevent algae growth in backyard ornamental ponds or water gardens.
- [This product] [product name] [it] can [also] be used as a remedial treatment for existing algae infestation.
- Can be used with fish [koi] in the treatment area [pond] [lake]
- Will not harm plants [lily pads] when used according to directions
- Treats up to (XX gallons)
- 2TBSP per 1000 gallons
- Prevents and [kills] [controls] [destroys] algae
- Treats string algae [filamentous algae]
- Fast acting algaecide, easily dissolved for spray application
- Concentrated granular formulation
- Copper-free formulation
- Effects of product during treatment are bubbling (not foaming), bleaching or discoloration of algae and floating organic matter. Comply with product dosage/application instructions minimizes potential for bleaching dark containers/lines.
- Oxygenates water
- [Options for application] broadcast, spreader & spray
- Can be used in flowing water applications
- Application techniques adapt to water treatment size
- [Clean][Maintain][Enhance]
- For Indoor and Outdoor residential use.

**[WARRANTY DISCLAIMER**

To the extent consistent with applicable law neither the manufacturer nor the seller makes any warranty, expressed or implied concerning the use of this product other than indicated on the label. To the extent consistent with applicable law buyer assumes risk of use of this material when such use is contrary to label instructions. Read and follow the label directions.]