

47371-98

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MAR 10 2004

Mr. Robert Sloan  
Sr. Regulatory Services Associate  
H & S Chemicals Division  
Lonza Inc.  
17-17 Route 208  
Fair Lawn, NJ 07410

Subject: HS-451 Swimming Pool Algaecide  
EPA Registration No. 47371-98  
Amendment Date: December 9, 2003  
EPA Receipt Date: December 12, 2003

Dear Mr. Sloan,

The following amendment submitted in connection with registration under FIFRA, as amended, is acceptable with the following condition.

**Proposed Amendment**

- Response to Agency letter dated November 6, 2003

**Condition**

- Based on similar products registered by the agency the Precautionary Language should read as follows: *Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get into eyes on skin or on clothing. Wear protective wear (goggles, face shield, or safety glasses), rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.*

**General Comments**

A stamped copy of the labeling accepted with condition is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling. Should you have any questions or comments concerning this letter, please contact Velma Noble at (703) 308-6233.

Sincerely,

  
Velma Noble

CONCURRENT Product Manager (31)

SYMBOL								
SURNAME								
DATE								

Regulatory Management Branch I  
Antimicrobials Division (7510C)

# HS-451 Swimming Pool Algaecide

HS-451 Swimming pool Algaecide is for use as and algae growth depressant. Keeps pool water free of visible algae and slime. Improves filter operation. Compatible with most pool treatment chemicals. Will not damage tile, concrete, metal, or plastics. Efficient. Stable.

**ACTIVE INGREDIENT:**

n-alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%)  
dimethyl benzyl ammonium chloride 10.24%

**OTHER INGREDIENTS:** ..... 89.76%

**TOTAL:** ..... 100.00%

**KEEP OUT OF REACH OF CHILDREN**

## DANGER

### FIRST AID

**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.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.

**IF SWALLOWED:** 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

(See side panel for additional precautionary statements.)

EPA Reg. No. 47371-98  
EPA Est. No. (insert EPA Establishment No. here)  
NET CONTENTS \_\_\_\_\_

**ACCEPTED**  
with COMMENTS  
in EPA Letter Dated:

MAR 10 2007

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

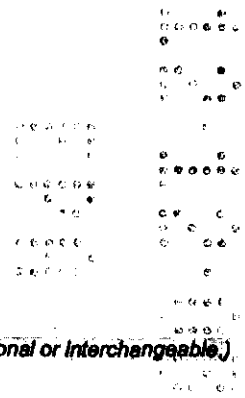
### H&S CHEMICALS DIVISION

c/o Lonza Inc.

17-17 Route 208

Fair Lawn, New Jersey 07410

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** May cause eye irritation or eye damage. Do not get in eyes. Avoid contact with skin and clothing. Causes skin irritation. Harmful or fatal if swallowed. Wash contaminated clothing before reuse. Avoid contamination of food, water, or feed. To protect eyes, wear goggles or face shield and to protect skin, wear rubber gloves when handling.

**ENVIRONMENTAL HAZARDS** *(For 5 gallon & larger only)*

This pesticide is toxic to fish. 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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PHYSICAL AND CHEMICAL HAZARDS**

This product is cationic. Do not mix with soap or anionic materials.

*(If container size is 1 gallon or less, the following storage and disposal statements will be used:)*

**STORAGE AND DISPOSAL**

Store in original container in areas inaccessible to children. Do not reuse empty container. Wrap container and put in trash.

*(If container size is greater than gallon, the following storage and disposal statements will be used:)*

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**

This product must be (kept under locked storage sufficient to make it) (stored in areas) inaccessible to children or persons unfamiliar with its use. Do not reuse empty container. Do not store on side. Avoid creasing or impacting of side walls.

**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 DISPOSAL**

*(Plastic containers):* Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

*(Metal Containers:)* Triple rinse (or equivalent), then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

*(Fiber drums and liners):* Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Then dispose of liner and drum in a sanitary landfill or incinerate if allowed by State and local authorities. Do not reuse empty drum or liner.

**DIRECTIONS FOR USE**

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

**SWIMMING POOL ALGAECIDE**

Effective against *Chlorella pyrenoidosa* (green algae), *Phormidium retzii* (blue-green algae), *Phormidium inundatum* (blue-green algae), *Lyngbya versicolor* (blue-green algae), *Phormidium luridum* (black algae) and *Pleurochloris meiringensis* (mustard algae).

For best results: test and adjust water balance before use, chlorinate and clarify pool water as required, shock treat pool water at least weekly, keep filtration systems clean and back-flush regularly. Call your local health department for assistance with any issue relating to good pool operating practices.

**APPLICATION:** For all applications, apply equal amounts of HS-451 Swimming Pool Algicide to pool water along pool edges around the circumference of the pool while filter pump is running. Run pump for at least 6 hours after application. Wait at least 15 minutes after application before entering pool.

**INITIAL APPLICATION:** When filling pool at beginning of season add 25 ounces of HS-451 Swimming Pool Algicide per 10,000 gallons water (2 ppm active ingredient).

**VISIBLE ALGAE:** If algae are visible, brush surfaces and then add 25 ounces of HS-451 Swimming Pool Algicide per 10,000 gallons water (2 ppm active ingredient). Vacuum pool and remove dead algae after 24 hours. Repeat treatment as necessary if algae are still present.

**MAINTENANCE DOSE:** When pool is free of visible algae, add 2 1/2 fluid ounce of HS-451 Swimming Pool Algicide per 10,000 gallons water (0.2 ppm active ingredient) every week. For very hot weather or heavy bathing load, use this dosage every 5 days.

**BOOSTER DOSE:** After heavy rains or severe storms, add 25 fl. ounces of HS-451 Swimming Pool Algicide per 10,000 gallons water (2 ppm active ingredient).

