



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 M St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:
68804-1

Date of Issuance:
JUN 15 1995

Term of Issuance:
Conditional

Name of Pesticide Product:
pHL 104

NOTICE OF PESTICIDE:
 X Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

pH Solutions, Ltd.
1001 North U.S. Highway 1 - 4th Floor
Jupiter, FL 33477

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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes listed below before you release the product for shipment:

a. Add the phrase, "EPA Reg. No. 68804-1".

b. If all of the precautionary statements do not appear on the front panel, add the following referral statement:

See side panel for additional precautionary statements.

c. You can delete the duplicate Statement of Practical Treatment section that appears on the second page of the labeling.

Signature of Approving Official:

Date:

JUN 15 1995

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d. Delete the quotation mark (") that appears after ... (1 ppm metallic copper).

3. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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 constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

James M. Stone
Acting Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

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pHL 104

Algicide/Bactericide

321
ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 15 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
(FIFRA), for the pesticide
registered under EPA Reg. No.

68804-1

DANGER
KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear goggles or safety glasses. Harmful if swallowed, inhaled or absorbed through skin. May cause allergic skin response. Avoid contact with skin. Wash thoroughly with soap and water after handling.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of potable water for at least 15 minutes. Call a physician.

If on skin: Wash thoroughly with soap and water.

If swallowed: Drink large quantities of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Call a physician or Poison Control Center.

EPA Reg. No. XXXXXXXX

EPA Est. No. XXXXXXXX

Net Contents: 5 Gallons

For Emergency Assistance Call

(800) 424-9300

Non-Flammable

INGREDIENTS

Active ingredient

Copper as Metallic*.....5%

Inert Ingredients.....95%

Total.....100%

*From Copper Sulfate Pentahydrate

DO NOT FREEZE

Manufactured by:

pH Solutions, Ltd,

1001 North U.S. Hwy One, 4th Floor

Jupiter, Florida 33477

GENERAL INFORMATION

PHL104® is an innovative formulation used for the suppression of bacterial odors and toxic gases in sewage lagoons, feedlot run-off pits, animal confinement facilities and other ponds containing organic matter or algae/bacteria. PHL104® may also be used to control algae, bacteria and pond weed in irrigation reservoirs, ponds and potable water supplies.

PRECAUTIONARY STATEMENTS

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of potable water for at least 15 minutes. Call a physician. If on skin: Wash thoroughly with soap and water. If swallowed: Drink large quantities of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Call a physician or Poison Control Center.

ENVIRONMENTAL HAZARDS

Fish and Aquatic Organisms: This product is toxic to fish. Direct application of PHL104® to water may cause a significant reduction in populations of aquatic invertebrates, plants and fish. Do not treat more than one-half of a lake or pond at one time to avoid depletion of oxygen from decaying vegetation. Allow 1 to 2 weeks between treatment for oxygen levels to recover. Trout and other species of fish may be killed at application rates recommended on this label, especially in soft or acidic waters. Do not contaminate water when disposing of equipment wash waters. (See Disposal Instructions.) Consult your local State Fish and Game Agency before applying this product to public waters. Permits may be required before treating such waters.

APPLICATION/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 PHL104®.

Always rinse equipment free and clean of PHL104® each night with plenty of fresh, clean water.

Always store PHL104® above 32 degrees F. Freezing may cause product separation. Seller makes no warranty for the performance of product which has been frozen. Apply 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 a water storage containment in gallons, multiply the water volume in cubic feet times 7.5.

NOTE: 1CFS/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.

GENERAL BACTERIAL ODOR CONTROL:

Application rates may vary depending on amounts of organic matter (sewage) in lagoons and pits. Application should be done by pouring PHL104® directly from the container into the pit or lagoon. Several application points speed up dispersal. Use one gallon of full strength PHL104® in 60,000 gallons (8,000 cubic feet) of sewage. For easiest

results disperse PHL104® evenly throughout sewage. Bacterial odors should be noticeably reduced in 1-2 weeks. Repeat application when odors reoccur.

Feedlot Run-off Lagoons: Add a portion of the required dosage of PHL104® at several locations around the lagoon to speed dispersal of the product. A minimum of two 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 PHL104® directly to these pits. If the pits are outside, add PHL104® to transfer line to the pit.

Other Organic Sludges: PHL104® must be thoroughly mixed with sludge. Apply at the rate of one gallon PHL104® in 30,000 gallons of sludge.

GENERAL ALGAE/BACTERIA CONTROL:

For algae/bacteria control, apply in late spring or early summer when algae/bacteria first appear. The dosages are variable and depend upon algae/bacteria species, water hardness, water temperature, 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 degrees F (15.6 degrees C). Higher dosages are required at lower water temperatures, higher algae/bacteria concentrations and for hard waters. Application should be done by pouring PHL104® directly from the container into the lakes, ponds, reservoirs or irrigation canals. Several application points speed up dispersal. 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.

Treatment of algae can result in oxygen loss from the decomposition of dead algae. This loss can cause fish suffocation. If the algae cover more than one-third of the total water area, treat in sections. Treat one-half of the water area in a single operation and wait for 10 to 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. 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.

Trout and certain other species of fish may be killed at recommended application rates, especially in soft or acidic waters. Before treating bodies of water, consult proper state authorities such as the Fisheries commission or conservation department to obtain any necessary permits.

In Lakes Ponds and Reservoirs: For easiest results disperse PHL104® evenly throughout the pond.

Apply at the rate of one pint PHL104® in 7,500-300,000 gallons of water. For conveyance systems longer than 30 miles, it is recommended that the above dosage be dispersed among injection points every 30 miles. For potable water, do not exceed the

total dosage of one gallon in 60,000 gallons of water (1 ppm metallic copper)"

STORAGE AND DISPOSAL

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

Storage: Store in a safe place away from pets and **KEEP OUT OF THE REACH OF CHILDREN.** Store away from excessive heat. PHL104® will freeze. Always keep container closed. Store PHL104® in its original container only. Bulk PHL104® shall be stored and handled in stainless steel, fiberglass, poly-propylene's, PVC's or plastic equipment. Keep away from galvanized pipe, and any nylon storage handling equipment.

Disposal: Excess PHL104® should 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, mixture, or rinsate is a violation of Federal Law. If these wastes can not 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: Do not re-use empty container. Dispose of containers in a sanitary landfill or by incineration. If burned, stay out of smoke.

LIMITED WARRANTY AND LIMITATION OF REMEDIES

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. 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. This product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied.

For Emergency Assistance:
Call CHEMTREC (800) 424-9300
Non-Flammable DO NOT FREEZE

Manufactured by:
pH Solutions, Ltd.
1061 N. U.S. Hwy. 1
4th Floor
Jupiter, Florida 33477
USA

LOT NO

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