

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Lonza Inc.
c/o Lewis & Harrison
122 C Street, N.W., Suite 740
Washington, D.C. 20001

FEB 03 1998

Attention: Eliot I. Harrison
Agent for Lonza

Subject: Lonza Microbiocide 50 - Amended Labeling
EPA Registration No. 6836-216
Your Submission Dated November 18, 1997
EPA Received Date of November 19, 1997

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable.

A stamped copy of the labeling is enclosed for your records. Submit one (1) copy of the final printed label prior to release of the product for shipment.

If you have any questions concerning this letter, please contact Julie Fairfax at (703) 308-9086.

Sincerely yours,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510W)

Enclosure

7510W:J.Fairfax:6836-216:1/30/98

CONCURRENCES						
SYMBOL	7510W					
SURNAME	J. Fairfax					
DATE	1/30/98					

LONZA

17-17 ROUTE 208
FAIR LAWN, NEW JERSEY 07410 USA
EMERGENCY TEL. NO. 309-697-5400

LONZA MICROBIOCIDE 50
Controls anaerobic sulfate-reducers and aerobic heterotrophic bacteria in oil field and petro-chemical water injection systems.

Active Ingredient: Alkyl (C₁₄-58%, C₁₅-28%, C₁₂-14%) dimethyl benzyl ammonium chloride 50.0%
Inert Ingredients: 50.0%
..... 100.0%

CAS. NO: MIXTURE
EPA Reg. No. 6836-216
EPA EST. No. 6836-IL-1
Net Contents:

KEEP OUT OF REACH OF CHILDREN

ACCEPTED
with COMMENTS
in EPA Letter Dated:
FEB - 3 1998

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 6836-216

DANGER

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER! CORROSIVE. Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food. Wash thoroughly with soap and water after handling.

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove contaminated clothing and wash before reuse. If swallowed, DO NOT induce vomiting, drink large quantities of water and call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge effluent containing this active ingredient 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 OR CHEMICAL HAZARDS

FLAMMABLE: Keep away from heat and open flame.

STORAGE AND DISPOSAL

Store only in closed container in a cool area. Isolate leaking or damaged containers. Clean up spills and place in plastic lined containers for disposal. Do not contaminate water, food or feed by storage or disposal.

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

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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DIRECTIONS FOR USE

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

OIL FIELD AND PETROCHEMICAL SUBSURFACE INJECTION SYSTEMS

Biological requirements vary from site to site. Areas frequently requiring control are raw water sources, mixing tanks, screens, and the formation itself. The primary treatment location will vary from site to site depending on the site problems, water flood treatment methods and equipment. The microbiocide should be applied where it will disperse most rapidly and uniformly to the desired area of treatment. This may be at screens, filters, pumps, mixing tanks, storage tanks, pre-filter water, to the water as it is pumped to the formation or it may be pumped directly to the formation.

SLUG DOSES: An effective treatment for aerobic heterotrophic bacteria is 5-21 ounces of Lonza Microbiocide 50 per 1,000 gallons (20-80 ppm). A slug dose for anaerobic sulfate-reducers is 1.6-6 ounces of Lonza Microbiocide 50 per 1,000 gallons (6-23 ppm). The appropriate slug dose should be applied for three to eight hours daily until the desired level of control is achieved. To maintain the system in an acceptable manner, utilize a continuous treatment with the microbiocide or apply intermittent doses.

INTERMITTENT DOSES: To keep a clean system from fouling, slug doses may be applied intermittently. The frequency of intermittent doses will vary with individual systems and can be established only through experience. Intermittent doses may be required 2 to 3 times a week in some systems. Other systems may require dosing once a week or once every two weeks. For heterotrophic bacteria, use 5-21 ounces of Lonza Microbiocide 50 per 1,000 gallons (20-80 ppm). For anaerobic sulfate reducers, use 1.6-6 ounces of Lonza Microbiocide 50 per 1,000 gallons (6-23 ppm). Maintain these doses for two to eight hours, depending upon the requirements of your system.

CONTINUOUS TREATMENT: Fouled systems should be slug treated to get initial control, followed by continuous treatment to maintain control. Use 1.6-5 ounces of Lonza Microbiocide 50 per 1,000 gallons (6-20 ppm). The lower dose concentration is usually satisfactory for Desulfovibria. Higher doses may be needed for the aerobic heterotrophic bacteria.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

FEB - 3 1998

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Fungicide, and Rodenticide Act as
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