

MAY 20 1991

Mr. Dennis L. McFadden
Great Lakes Chemical Corporation
P.O. Box 2100
West Lafayette, IN 47906

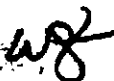
Dear Mr. McFadden:

Subject: Adding Mollusca Control and Once Through Cooling Tower Use
WTA Sodium Bromide
EPA Registration No. 5785-66
Sodium Bromide
EPA Registration No. 5785-67
Liquibrom 3800
EPA Registration No. 5785-76
Liquibrom 100
EPA Registration No. 5785-78
Liquibrom 4300
EPA Registration No. 5785-79
WTA 1500
EPA Registration No. 5785-80
WTA 4000
EPA Registration No. 5785-81 ✓
Your Amendment Dated April 11, 1991

BEST AVAILABLE COPY

The labeling required as above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,



Walter G. Francis
Product Manager
Artificially Flavored Branch

WTA 4000

FOR USE AS A DISINFECTANT, SANITIZER, BACTERICIDE,
SLIMICIDE, ALGICIDE, AND MOLLUSK CONTROL AGENT
IN RECIRCULATING COOLING WATER SYSTEMS, BREWERY
PASTEURIZING SYSTEMS, AIR WASHERS, ONCE THROUGH COOLING WATER
AND WASTEWATER TREATMENT SYSTEMS, AND PULP AND PAPER MILLS

Active Ingredient:		
Sodium bromide	40%	
Inert Ingredients	60%	
Total	100%	

KEEP OUT OF REACH OF CHILDREN

WARNING

STATEMENT OF PRACTICAL TREATMENT

- Eye Contact:** Flush eyes with cold water for at least 15 minutes. If irritation persists, seek medical attention immediately.
- Skin Contact:** Prolonged contact can produce skin irritation. If skin contact occurs, wash with cold water for 15 minutes.

SEE OTHER PRECAUTIONS ON SIDE PANEL

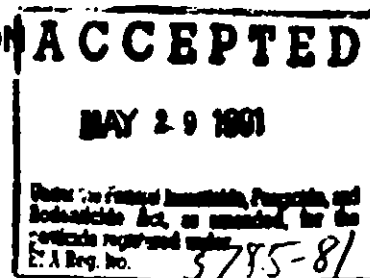
NET WEIGHT: _____

EPA REG. NO. 5785-81

LOT NUMBER: _____

EPA EST. NO. 5785-AR-01

GREAT LAKES CHEMICAL CORPORATION
P.O. BOX 2200
WEST LAFAYETTE, IN 47906



GLK-81-E

HAZARDOUS TO HEALTH
and skin irritation
clothing

ENVIRONMENTAL
In accordance with

PHYSICAL AND CHEMICAL
other materials, by
breathing apparatus

It is a violation of F

STORAGE. Keep
ventilated area. Pr

DISPOSAL. Waste
approved waste di
or reconditioning,
by state and local

RECIRCULATING
PASTEURIZERS.
slimes and control
the Auto clam (C
as flow through fil

DO dosage RATES.
For example:

Initial Dose: When
1000 gallons of wa
gas chlorine per 1
gallons of 12.5% s

1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.02 to 0.08 lbs. gas chlorine per 1000 gallons of contained water), or sodium hypochlorite solution (0.003 to 0.032 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained water).

ONCE-THROUGH COOLING WATER AND WASTEWATER TREATMENT SYSTEMS. When used as directed, WTA 4000 effectively controls algal, bacterial and fungal slimes and controls the settlement and growth of mollusks such as the zebra mussel (*Dreissena*) or the Asiatic clam (*Corbicula*) in once-through fresh and sea water cooling systems and disinfects secondary and tertiary wastewater treatment systems.

DOSAGE RATES. Add WTA 4000 to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

- 1) 1.6 to 26.5 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution;
- 2) 1.3 to 21.2 gallons sodium hypochlorite (12.5% available chlorine) per gallon of sodium bromide solution.

Initial Dose. When the system is noticeably fouled, add 0.0008 to 0.049 gallons of WTA 4000 per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.02 to 0.08 lbs. gas chlorine per 1000 gallons contained volume), or sodium hypochlorite solution (0.02 to 0.06 gallons 12.5% sodium hypochlorite solution per 1000 gallons contained volume).

Subsequent Dose. When microbial control is evident, add 0.0003 to 0.049 gallons WTA 4000 per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.008 to 0.08 lbs. gas chlorine per 1000 gallons contained volume), or sodium hypochlorite solution (0.006 to 0.06 gallons 12.5% sodium hypochlorite solution per 1000 gallons contained volume).

PULP AND PAPER MILLS. When used as directed, WTA 4000 effectively controls algal, bacterial, and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems, nonpotable water systems, and other process water.

Dosage Rates. Add WTA 4000 to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

- 1) 1.6 to 26.5 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution;
- 2) 1.3 to 21.2 gallons of sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Add sufficient WTA 4000 and oxidize with either gas chlorine or sodium hypochlorite solution to achieve a residual bromine level of 0.5 to 5 ppm or as needed to maintain control of the system. WTA 4000 can be added whenever chlorination is applied.

Feed WTA 4000 either before or after the oxidant injection point into the water to be treated. Be sure

sodium hypochlorite solution. If used as the oxidant, chlorine gas, in accordance with practices recommended in The Chlorine Manual, New York. Use chlorine gas only in well ventilated areas.

Treatment of WTA 4000 and oxidant can best be measured by chlorine tests. Tests should be made immediately after drawing water as kits according to directions.

1. When a bromine test kit is used, results can be read directly.
2. When a chlorine test kit is used, results can be read by multiplying chlorine values by the conversion factor.

WTA 4000 weighs 11.9 lbs/gal at 70° F.

NOTE: Seller warrants that this product complies with the specifications. Seller makes no other warranties; and disclaims all other warranties, not limited to warranties of merchantability and fitness for the intended use. Any liability under this label shall be limited to the amount paid for the product. Seller shall have no liability for consequential damages.