

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 22 1995

Calgon Corporation
P.O. Box 1346
Pittsburgh, PA 15230

Attention: Stanley C. Oslosky
Regulatory Specialist

Subject: Tektamer 38 O.L.
EPA Registration Number 10445-71
Your Amendment Dated July 12, 1995

This is in response to your amendment to update the labeling for the subject product.

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable provided that you make the following revision before you release the product for shipment bearing the amended labeling.

1. Under the "Environmental Hazards Statement" add "This Pesticide is toxic to fish and aquatic organisms." before "Do not discharge...".

A stamped copy is enclosed for your records. Submit one copy of the final printed label before you release the product for shipment bearing the amended label.

If you have any questions concerning this letter, please contact me at (703) 305-7964.

Sincerely,



Ruth G. Douglas
Product Manager (32)
Antimicrobial Program Branch
Registration Division (7505C)

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

TFKTAMER 38 O.L.

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TEKTAMER 38 O.L. is a water treatment microbiocide for controlling bacteria, fungi and yeasts in pulp and paper mills; for the preservation of pigment slurries, adhesives, coatings, emulsions, and high viscosity suspensions; and for subsurface water injection systems and well drilling fluids.

TEKTAMER 38 O.L. is a 10% solution of 1,2-dibromo-2,4-dicyanobutane in a glycol ether.

TYPICAL PROPERTIES

Active ingredient.....	10% minimum
Color.....	Yellow to light amber liquid
Odor.....	mild
Specific Gravity.....	1.02
Bulk Density.....	8.5 lbs./gallon
Flash Point (Pensky Martens Closed Cup).....	115°C, 239°F
pH (1% solution).....	4.9
Viscosity, centipoises @ 25°C.....	9.1
Freeze Point.....	less than -50°C, -58°F
Cloud Point.....	-26°C, -15°F

ACCEPTED
with COMMENTS
in EPA Letter Dated:

FEB 22 1996

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

10445-71

Broad Spectrum Activity

TEKTAMER 38 O.L. provides broad spectrum control of slime-producing bacteria, yeast, and fungi. Thus a reliable biological slime control program is achieved with the use of a single product.

Effective at Low Dosage Levels

This product is effective at low dosage levels, which results in a more economical treatment cost per ton and less drum handling.

Compatible with Commonly Used Paper Mill Additives

At use levels, **TEKTAMER 38 O.L.** is completely compatible with commonly used paper mill additives. Reliable slime control is achieved without adversely affecting product quality.

Activated Sludge Systems Not Affected

Studies show **TEKTAMER 38 O.L.** can be used without adversely affecting the performance of activated sludge treatment systems.

Easy to Feed

This product is supplied as a liquid and can be fed directly from the drum or storage tank, eliminating the need for makedown and greatly simplifying the feed systems.

DIRECTION FOR USE

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

Slime Control

Dosage: For control of bacterial, fungal and yeast growth in pulp, paper and paperboard mills, add **TEKTAMER 38 O.L.** at the rate of 0.012-0.12 gallons (0.1-1 lb.)/ton of finished pulp or paper produced (dry basis). Additions may be continuous or intermittent, depending upon the type of system and the severity of contamination.

It should be fed with a metering pump at a location that will insure uniform distribution of **TEKTAMER 38 O.L.** in the mass of fiber and water, such as the beaters, Jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water chests.

It is preferable to clean a fouled machine before slimicide addition whenever possible. Calgon Corporation offers the services of trained professional engineers and microbiologists who can offer technical assistance in solving in-plant slime control problems.

Method of Addition: Systems with a tendency to become severely fouled, or heavily fouled systems, should be thoroughly cleaned and then treated continuously with **TEKTAMER 38 O.L.** at a rate of 0.036-0.12 gallons (0.3-1 lb.)/ton of finished paper produced until control of the problem is achieved. Addition rates can then be reduced to a maintenance level.

Maintenance levels for systems conducive to slight or moderate fouling should be treated continuously or on an intermittent basis with **TEKTAMER 38 O.L.** at a level of 0.012-0.12 gallons (0.1-1.0 lb.)/ton of finished paper product depending upon observed conditions.

For the Preservation of Pigment Slurries, Adhesives, Coatings, and High Viscosity Suspensions

Dosage: **TEKTAMER 38 O.L.** is effective as a preservative at use levels of 0.05-0.25% (w/w) based on the total formulation in slurries such as: starch, clay, calcium carbonate or titanium dioxide; paper adhesives such as: polyvinyl alcohol/polyvinyl acetate-based adhesives; starch-based adhesives; dextrin-based adhesives. The exact amount necessary for the preservation of any given formulation will depend on the components, storage time and temperature, etc., and can be determined by actual test.

Method of Addition: For preservation of slurries and high viscosity suspensions, the material should be added at a point in the processing where there will be sufficient time and agitation for good dispersion.

For Injection Systems

To control sulfate-reducing bacteria in oilfield water injection systems and water transmission and gathering systems, use **TEKTAMER 38 O.L.** as directed. Best results are obtained when slug fed. Frequency of addition of a microbiocide depends on many factors. Follow this procedure to optimize your use of **TEKTAMER 38 O.L.**

Add **TEKTAMER 38 O.L.** as close to the water source as possible with a Calgon (or equivalent) metering pump at a point in the system prior to free-water knockouts, storage tanks or filters for maximum system residence time.

Slug feed 1000 to 5000 ppm **TEKTAMER 38 O.L.** (350 to 1740 pounds **TEKTAMER 38 O.L.** per 1,000 barrels of water to be treated). Slug additions should be for a minimum of four hours each day, more frequently if needed to obtain desired results.

For Drilling Fluids

Add 2500 to 5000 ppm **TEKTAMER 38 O.L.** (87 to 174 pounds or 52 to 103 mud cups per 100 barrels of drilling fluid) directly to the mud or the drilling fluid for start-up treatment.

Add **TEKTAMER 38 O.L.** to the chemical barrel and add treatment over one circulation period.

Maintain **TEKTAMER 38 O.L.** residual during drilling operation by adding 300 to 600 ppm **TEKTAMER 38 O.L.** (105 to 210 pounds or 62.5 to 125 mud cups per 100 barrels of new fluid) to new make-up fluid each tour.

Add **TEKTAMER 38 O.L.** maintenance treatment to the chemical barrel once each hour whenever new make-up fluid is added.

COMPATIBILITY

TEKTAMER 38 O.L. is compatible with typical ingredients used in oilfield applications. However, it should be added separately from amine-containing and strong nucleophilic agents. Mixing **TEKTAMER 38 O.L.** with these agents may cause reaction between the ingredients which can de-activate **TEKTAMER 38 O.L.**

TEKTAMER 38 O.L. is most active over a pH range of 2-9.5. In some formulations, product has shown efficacy in higher pH formulations. If the formulation will have a final pH greater than 9.5, laboratory testing is recommended.

FEED EQUIPMENT

TEKTAMER 38 O.L. is a solvent-based product. For feeding this product, care should be taken to select feed equipment with proper materials of construction. Tests have shown that Teflon and Fluorosilicone are not affected by **TEKTAMER 38 O.L.** Viton may be used for gasket applications, but it swells in the product. This swelling may cause problems with seals, ball valves or diaphragms.

Piping and pumps used to handle **TEKTAMER 38 O.L.** should be constructed of PVC (Type 1), polyethylene, polypropylene, Tygon (vinyl tubing) and nylon. These materials have been tested at ambient temperatures for several months without problems. Plexiglas (acrylic) CPVC or various copper-base metals should not be used. CPVC is a common substitute for PVC in piping components. Since it is softened by **TEKTAMER 38 O.L.**, CPVC should not be used.

PACKAGING

TEKTAMER 38 O.L. is available in drums and liquid bins.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: CORROSIVE TO EYES

CAUSES EYE DAMAGE AND SKIN IRRITATION

Do not get in eyes, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Wash contaminated clothing before reuse.

STATEMENTS OF PRACTICAL TREATMENT

EYES: If in eyes, flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

SKIN: If on skin, wash with soap and water. Call a physician if irritation persists.

INTERNAL: If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

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.

STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal or cleaning of equipment.

Pesticide Disposal - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide 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: Metal Containers - 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.

Plastic Containers - Triple rinse (or equivalent). Then offer for recycling and 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.

General - Consult Federal, State or Local disposal authorities for approved alternative procedures.

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NOTICE: Seller expressly warrants that the product conforms to its chemical description. THERE ARE NOT WARRANTIES ASSOCIATED WITH THE SALES OF THIS PRODUCT, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet and label for this product.
For additional information regarding incidents involving human and environmental exposure, call 412-777-8000.

Produced and sold by Calgon Corporation
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