

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

29 SEP 1993

Stanley C. Oslosky
Calgon Corporation
P.O. Box 1346
Pittsburgh, PA 15230

Subject: Tektamer 38 O.L.
EPA Registration No. 10445-71
Your Amendment Dated January 28, 1993

Dear Mr. Oslosky:

This is in response to your labeling amendment for adding additional uses, due to the cancellation of EPA Reg. No. 10445-26 (which was registered with those uses).

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. In the Precautionary Statements on the primary label, replace the statement "Causes Eye And Skin Irritation" with "Causes Eye Damage And Skin Irritation."
3. Submit five (5) copies of your final printed labeling before you release the product for shipment bearing the amended labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

If you have any questions about these comments, you may call Wallace Powell at 703-305-6938.

Sincerely,



Ruth G. Douglas
Product Manager 32
Antimicrobial Program Branch
Registration Division (H-7504C)

Enclosure



SUBSIDIARY OF MERCK & CO., INC.

TEKTAMER® 38

WATER TREATMENT MICROBIOCIDES FOR CONTROLLING BACTERIA, FUNGI AND YEASTS IN
FOR THE PRESERVATION OF PIGMENT SLURRIES, ADHESIVES, COATINGS, EMULSIONS, AND
AND FOR SUBSURFACE WATER INJECTION SYSTEMS AND WELL DRILLING

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS

DANGER - CORROSIVE

CAUSES EYE AND SKIN IRRITATION.
HARMFUL IF SWALLOWED.

DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.
WEAR GOGGLES OR FACE SHIELD AND RUBBER GLOVES WHEN HANDLING.
WASH THOROUGHLY AFTER HANDLING.

ACTIVE INGREDIENT:

1,2-DIBROMO-2,4-DICYANOBUTANE 10%
INERT INGREDIENTS 90%

KEEP OUT OF REACH
OF CHILDREN
DANGER

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 RINSE 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.

FIRST AID:

EYES: IN CASE OF CONTACT, FLUSH EYES IMMEDIATELY WITH WATER
FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION.

SKIN: IN CASE OF CONTACT, WASH WITH SOAP AND WATER. IF IRRITATION
PERSISTS, CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE.

INTERNAL - IF SWALLOWED, CALL A PHYSICIAN OR POISON CONTROL CENTER.
DRINK 1 OR 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING BACK
THROAT WITH FINGER, OR, IF AVAILABLE BY ADMINISTERING SYRUP OF IPE.
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS

E.P.A. REGISTRATION NO. 10445-71

- ☐ EPA Establishment No. 10445-PA-01
- ☐ EPA Establishment No. 10445-TX-01

NET WT: 441 LB. (200 KG.)

CALGON CORPORATION
CALGON CENTER • PITTSBURGH, PA. 15

U.S. PATENT NO. 3,833,731 3,873,597, 3,877,922 3,929,858

6017REG/01-93

Made in U.S.A.

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TEKTAMER® 38 O.L.

00-6017-55

PRODUCT CODE

WATER TREATMENT MICROBIOCIDAL 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

ACTIVE INGREDIENT:

1,2-DIBROMO-2,4-DICYANO BUTANE 10%

INERT INGREDIENTS 90%

**KEEP OUT OF REACH
OF CHILDREN
DANGER**

FIRST AID:

EYES: IN CASE OF CONTACT, FLUSH EYES IMMEDIATELY WITH WATER
FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION.
SKIN: IN CASE OF CONTACT, WASH WITH SOAP AND WATER. IF IRRITATION
PERSISTS, CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE.
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.

E. P. A. REGISTRATION NO. 10445-71

- ☐ EPA Establishment No. 10445-PA-01
- ☐ EPA Establishment No. 10445-TX-01

NET WT: 441 LB. (200 KG.)

CALGON CORPORATION
CALGON CENTER • PITTSBURGH, PA. 15230

DIRECTIONS FOR USE:

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT
IN A MANNER INCONSISTENT WITH ITS LABELING. SEE PRODUCT
BULLETIN FOR USE DIRECTIONS.

THIS PRODUCT HAS BEEN CLEARED FOR USE IN PAPER OR
PAPER PRODUCTS INTENDED FOR USE IN CONTACT WITH FOOD.

ENVIRONMENTAL HAZARDS:

DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT INTO LAKES,
STREAMS, PONDS, ESTUARIES, OCEANS, OR PUBLIC WATERS UNLESS THE PRODUCT
IS SPECIFICALLY IDENTIFIED AND ADDRESSED IN AN NPDES PERMIT. DO NOT
DISCHARGE EFFLUENT CONTAINING THIS PRODUCT INTO SEWER SYSTEMS WITHOUT
PREVIOUSLY NOTIFYING THE SEWAGE TREATMENT PLANT AUTHORITY. FOR
GUIDANCE, CONTACT YOUR STATE WATER BOARD OR REGIONAL OFFICE OF THE EPA.
DO NOT CONTAMINATE WATER BY CLEANING OF EQUIPMENT OR DISPOSAL OF
WASTE. APPLY THIS PESTICIDE ONLY AS SPECIFIED ON THIS LABEL.

NOTICE:

SELLER EXPRESSLY WARRANTS THAT THE PRODUCT CONFORMS TO ITS
CHEMICAL DESCRIPTION. THERE ARE NO WARRANTIES ASSOCIATED WITH
THE SALE OF THIS PRODUCT EITHER EXPRESSED 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 found in the
Material Safety Data Sheet for this product.

For additional information regarding incidents involving human and environmental
exposure, call 412-777-8000 and ask for the Health and Environmental Affairs
Department.

ACCEPTED
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended.
10445-71
1993
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10445-71
1993

DISPOSAL OR CLEANING
ACUTELY HAZARDOUS.
RINSE & A VIOLATION
DISPOSE OF BY USE
YOUR STATE PESTICIDE
HAZARDOUS WASTE
OFFICE FOR GUIDANCE.
VALENT). THEN OFFER FOR
AND DISPOSE OF IN A
APPROVED BY STATE AND
VALENT). THEN OFFER FOR
AND DISPOSE OF IN A
F ALLOWED BY STATE AND
STAY OUT OF SMOKE.
DISPOSAL AUTHORITIES FOR

77-922 3-929-856

Made in U.S.A.

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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 ⁰ , 239 ⁰ F
pH (1% solution).....	4.9
Viscosity, centipoises @ 25 ⁰ C	9.1
Freeze Point ..	less than -50 ⁰ C, -58 ⁰ F
Cloud Point.....	-26 ⁰ C, -15 ⁰ F

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.

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TEKTAMER is a registered trademark of Merck & Co., Inc. U.S. Patent No :
3,833,731, 3,873,597, 3,877,922, 3,929,858

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 labelling.

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.

ACCEPTED
28 SEP 69
amended, for the pesticide
registered under EPA Reg. No.
10445-71

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 100 to 500 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 250 to 500 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 four.

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 checks or diaphragms.

Piping and pumps used to handle TEKMER 38 O.L. should be constructed of PVC (Type I), 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 TEKMER 38 O.L., CPVC should not be used.

PACKAGING

TEKMER 38 O.L. is available in 441-lb. net drums and 2600 pound liquibins.

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 public waters unless the product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

STORAGE AND DISPOSAL

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

ACCEPTED
with COMMENTS
25 SEP 1993
Under EPA Pesticide Act as amended, for the pesticide registered under EPA Reg. No. 10445-71

NOTICE Seller expressly warrants that the product conforms to its chemical description. THERE ARE NO 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, a wholly-owned subsidiary of Merck & Co., Inc. For further information, write to

Calgon Corporation
Specialty Chemical Group
P. O. Box 1346
Pittsburgh, PA 15230
Phone: 412-777-8000

ACCUTED
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10445-71
Under Fungicide, side,
amended for use as
registered and EPA Reg. No.