

# METASOL® D3T

BEST AVAILABLE COPY

00-6202-Y2

PRODUCT CODE

ACCEPTED

AUG - 3 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10445-37

INHIBITS AND CONTROLS GROWTH OF SLIME-FORMING BACTERIA AND FUNGI IN PULP AND PAPER MILLS PRESERVATIVE FOR COATINGS, CLAY SLURRIES, ADHESIVES, GLUES, LATEX EMULSIONS, CASEIN AND TITANIUM DIOXIDE SLURRIES PRESERVES AQUEOUS SYSTEMS

WATER TREATMENT MICROBIOCIDIC FOR OILFIELD SUBSURFACE WATER INJECTION SYSTEMS AND WELL DRILLING FLUIDS

NOT FOR USE IN OILFIELDS IN THE STATE OF CALIFORNIA

#### DIRECTIONS FOR USE:

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

DOSEAGE - SLIME CONTROL: ADD TO MACHINES IN AMOUNT REQUIRED BY ACTUAL TEST. REFER TO PRODUCT DATA SHEET.

PRESERVATION: 0.04-0.1%. USE AMOUNT REQUIRED BY ACTUAL TEST. REFER TO PRODUCT DATA SHEET.

#### ACTIVE INGREDIENTS:

TETRAHYDRO-3,5-DIMETHYL 2H-1,3,5-THIADIAZINE-2-THIONE . . . . . 98%

INERT INGREDIENTS . . . . . 2%

## KEEP OUT OF REACH OF CHILDREN WARNING

EPA REGISTRATION NO. 10445-37  
EPA Establishment No. 10445-PA-01

**CALGON CORPORATION**  
CALGON CENTER • PITTSBURGH, PA 15230

Made in U.S.A.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

MAY BE FATAL IF SWALLOWED.  
MAY CAUSE IRRITATION OF SKIN AND EYES.  
MAY CAUSE SKIN SENSITIZATION.  
AVOID CONTACT WITH SKIN, EYES AND CLOTHING.  
AVOID BREATHING DUST.  
WASH THOROUGHLY AFTER HANDLING.

## STATEMENTS OF PRACTICAL TREATMENT

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

SKIN: IN CASE OF SKIN CONTACT, WASH WITH SOAP AND PLENTY OF WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION. REMOVE 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.

## NET WT: 100 LB. (45.4 KG.)

Information concerning human and environmental exposure may be reviewed in 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.

BY  
ADMONS.  
E,  
WASTES  
TRUCTIONS,  
OL AGENCY  
T EPA

MAKING  
TICLES.  
POSE OF  
ALLOWED  
WATED

NT CONTAINING  
EANS, OR  
NTIFIED  
FLUENT  
OUSLY  
UIDANCE,  
HE EPA.

CONCERNING THE  
BUYER ASSUMES  
N SUCH USE



SUBSIDIARY OF MERCK & CO., INC.

# METASOL

## STORAGE AND DISPOSAL:

**PROHIBITIONS** - DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. KEEP CONTAINER TIGHTLY CLOSED.

**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** - COMPLETELY EMPTY DRUM LINER BY SHAKING AND TAPPING SIDES AND BOTTOM TO LOOSEN CLINGING PARTICLES. EMPTY RESIDUE INTO APPLICATION EQUIPMENT, THEN DISPOSE OF LINER IN A SANITARY LANDFILL OR BY INCINERATION IF ALLOWED BY STATE AND LOCAL AUTHORITIES. IF DRUM IS CONTAMINATED AND CANNOT BE REUSED, DISPOSE OF IN THE SAME MANNER.

## ENVIRONMENTAL HAZARDS

THIS PRODUCT IS TOXIC TO FISH. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT INTO LAKES, STREAMS, PONDS, ESTUARIES, OCEANS, OR PUBLIC WATERS, UNLESS THIS PRODUCT IS SPECIFICALLY IDENTIFIED AND ADDRESSED IN AN NPDES PERMIT. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT TO SEWER SYSTEMS WITHOUT PREVIOUSLY NOTIFYING THE SEWAGE TREATMENT PLANT AUTHORITY. FOR GUIDANCE, CONTACT YOUR STATE WATER BOARD OR REGIONAL OFFICE OF THE EPA.

**NOTICE:** SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE USE OF THIS PRODUCT OTHER THAN INDICATED ON THE LABEL. BUYER ASSUMES ALL RISK OF USING AND/OR HANDLING OF THIS MATERIAL WHEN SUCH USE AND/OR HANDLING IS CONTRARY TO THE LABEL INSTRUCTION.  
6202REG/02-93

**BEST AVAILABLE COPY**

INHIBITS AND CONTROLS GROWTH OF SLIME BACTERIA AND FUNGI IN PULP AND PA  
PRESERVATIVE FOR COATINGS, CLAY SLURR  
GLUES, LATEX EMULSIONS, CASEIN AND TI  
SLURRIES PRESERVES AQUEOUS SYS

WATER TREATMENT MICROBICIDE FOR OILFI  
WATER INJECTION SYSTEMS AND WELL DRI

NOT FOR USE IN OILFIELDS IN THE STATE

### DIRECTIONS FOR USE:

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PR  
A MANNER INCONSISTENT WITH ITS LABELING.

**DOSE - SLIME CONTROL:** ADD TO MACHINES IN AM  
BY ACTUAL TEST. REFER TO PRODUCT DATA SHEET.  
**PRESERVATION:** 0.04-0.1%. USE AMOUNT REQUIRED  
REFER TO PRODUCT DATA SHEET.

### ACTIVE INGREDIENTS:

TETRAHYDRO-3,5-DIMETHYL 2H-1,3,5-TH  
2-THIONE . . . . .

INERT INGREDIENTS . . . . .

## KEEP OUT OF REACH OF WARNING

EPA REGISTRATION NO. 10445  
EPA Establishment No. 10

**CALGON CORPO**  
CALGON CENTER - PITTSBUR

Made in U.S.A

**Metasol D3T** is a preservative effective against a broad spectrum of bacteria and fungi in coatings, clay slurries, adhesives, glues, latex emulsions, casein, and titanium dioxide slurries. Water treatment microbiocide for Oilfield subsurface water injection systems and well-drilling fluids. Chemically, the product is tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione.

**[NOT FOR USE IN OILFIELDS IN THE STATE OF CALIFORNIA]**

## RECOMMENDED USES AND APPLICATIONS

### FOR PRESERVATION OF SLURRIES AND HIGH VISCOSITY SUSPENSIONS (COATINGS, CLAY SLURRIES, GLUES, ADHESIVES)

#### Dosage

Test data show that Metasol D3T is effective as a preservative at use levels of 0.04-0.1%. The exact amount will depend on the components, storage time and temperature, etc., and can best 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 BACTERIAL AND FUNGAL SLIME CONTROL IN PULP AND PAPER MILL SYSTEMS

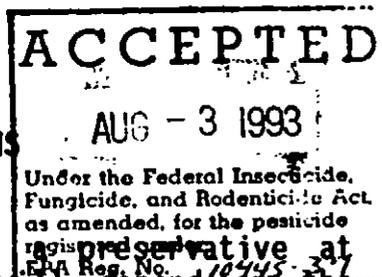
#### Dosage

Test data show that Metasol D3T in concentrations of 10-50 ppm, will inhibit the growth of slime forming bacteria and fungi in pulp and paper mill systems. Metasol D3T should be added to the stock system at a point where there will be good agitation and time for dispersion at a rate of 0.083 to 0.415 lb/1000 gal of treated water. Each mill system varies considerably as to the amount of Metasol D3T required. Under severe conditions, doses approaching 50 ppm are required. Under less severe conditions, lower dosages approaching 10 ppm should be used.

*Calgon Corporation offers the services of trained professional chemical engineers and microbiologists who can offer technical assistance in solving in-plant slime control problems.*

#### Method of Addition

For slime control, Metasol D3T should be added at the heaters or as far back in the system as possible to allow time for dispersion. The material is packaged in pre-measured water soluble plastic bags for accurate additions and ease in handling.



METASOL is a registered trademark of Merck & Co., Inc. EPA Reg. No. 10445-37

FDA acceptance under 21 CFR Sections 176.105, 176.230 and 176.300

**BEST AVAILABLE COPY**

**TO CONTROL AEROBIC AND ANAEROBIC BACTERIA IN OILFIELD WATER INJECTION SYSTEMS, WATER TRANSMISSION, WATER GATHERING, PACKER FLUIDS, AND DRILLING FLUIDS**

**Dosage**

Slug feed 100 to 1000ppm Metasol D3T (35 pounds to 350 pounds Metasol D3T per 1,000 barrels of water to be treated).

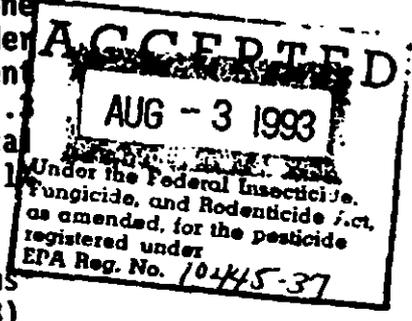
**Method of Addition**

Add Metasol D3T to the water at storage tanks, free water knockouts, filters or mixing areas for maximum system mixing and residence time.

Slug additives should be for a minimum of four hours each day, more frequently if needed to obtain desired results.

**SPECIFICATIONS**

- Chemical name.....Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione
- Description.....Crystalline off-white powder
- Active ingredient.....98% minimum active ingredient
- Specific gravity.....1.1
- Bulk density.....10.79 lb./gal
- Solubility.....Water - 0.1



**PACKAGING**

- Bulk.....100-lb. lined fiber drums
- Small quantities...1-lb. and 1/2-lb. water soluble bags (WSB)

**PRECAUTIONS**

Metasol D3T should not be used in formulations containing mercurials or other components that are not compatible with sulfur compounds.  
**DO NOT** use in water intended for human consumption.  
 Metasol D3T should be used with proper safety precautions.  
**MAY BE FATAL IF SWALLOWED**  
**MAY CAUSE IRRITATION OF SKIN AND EYES**  
**MAY CAUSE SKIN SENSITIZATION**  
 Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling.

**STATEMENTS OF PRACTICAL TREATMENT**

- EYES:** In case of contact, flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- SKIN:** In case of skin contact, wash with soap and water. If irritation develops, get medical attention. Remove and 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.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**STORAGE AND DISPOSAL**

Prohibition - 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 - Completely empty drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

**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.**

**ACCEPTED**  
AUG - 3 1993  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10445-37

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 and ask for the Health & Environmental Affairs Department.

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 412-777-8000