

10445-37

PM 31

1067

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 05 1989

Calgon Corporation
 Calgon Center
 P.O. Box 1346
 Pittsburgh, PA 15236

Attention: Linda Easton
 Manager

Gentlemen:

Subject: Metasol D3T
 EPA Registration No. 10445-37
 Your Submission Dated June 10, 1989

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling.
 - a. Delete from the ingredient statement "min" following declared percentages.
 - b. On the Technical Bulletin, change "Metasol D3T is in compliance with Title 21 of the Code of Federal Regulations 176.330" to 176.230.
2. Submit five (5) copies of final printed labeling before you release the product shipment.

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

54736:I:DeLaney:LL-9:KENCO:6/23/89:8/4/89:CT:GJ:VO:EK:CT

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

If you have any questions concerning this letter, please contact Martha DeLaney at (703) 557-6982.

Sincerely yours,



John H. Lee
Product Manager (31)
Antimicrobial Program Branch
Registration Division. (H7505C)

Enclosure



SUBSIDIARY OF MERCK & CO. INC.

NETASOL R D3T

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

Active Ingredient:
Tetrahydro-3,6-dimethyl 2h-1,3,5-thiadiazine-
2-thione.....98% min.
Inert Ingredients..... 2% min.

WARNING!

KEEP OUT OF REACH OF CHILDREN

Information concerning human and environmental exposure may
be reviewed on the Material Safety Data Sheet for the product.
For additional information regarding incidents involving human
and environmental exposure, call Calgon Corporation, Regulatory
and Trade Affairs at 412/777-6000.

EPA Est. No. 10445-NJ-01

EPA Reg. No. 10445-37

Net Weight _____

CALGON CORPORATION
POST OFFICE BOX 1346
PITTSBURGH, PENNSYLVANIA 15230

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING!

HAZARDOUS 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

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.

DIRECTIONS FOR USE

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

DOSAGE - Slime Control: Add to
required by actual test. Refer to

Preservation: 0.01-0.5%. Use amount
actual test. Refer to Product Data

STORAGE AND DISPOSAL

Prohibition - Do not contaminate water
by storage or disposal.

Pesticide Disposal - Pesticide waste
Improper disposal of excess pesticide
rinseate is a violation of Federal law.
be disposed of by use according to
your State Pesticide or Environmental
Hazardous Waste representative at
for guidance.

Container Disposal - Completely
tapping sides and bottom to loosen
residue into application equipment
sanitary landfill or by incineration at
local authorities. If drum is con-
sidered to be in the same manner.

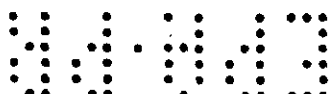
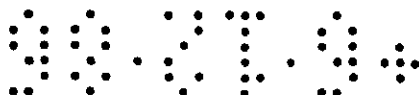
NOTICE: Seller expressly warrants
chemical description. There are no
sale of this product either express
limited to, the warranties of fitness
merchantability.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUL 05 1989

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

10445-37



the product is tetrahydro-5, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.

TYPICAL PROPERTIES

Description Crystalline off-white powder
Active ingredient > 98%
Specific gravity 1.3
Water solubility Up to 0.1%

TYPICAL USE LEVELS

Laboratory testing and customer use show METASOL D3T is effective as a preservative at use levels of 0.01-0.5%. The exact amount necessary for any particular application is best determined using laboratory tests.

METHOD OF ADDITION

METASOL D3T should be added to the end-use product at a point in the processing where there is sufficient agitation and time to achieve good dispersion.

PACKAGING

METASOL D3T is available in 100-lb. net fiber drums and in 1-lb. and 1/2-lb. water-soluble bags.

PRECAUTIONS

METASOL D3T should not be used in formulations containing mercurials or other components that are not compatible with sulfur compounds.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING!

HARMFUL 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.

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Fungicide, and Rodenticide Act
as amended, for the pesticide
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10445-37

METASOL is a registered trademark of March & Co., Inc.
EPA Reg. No. 10445-37
FDA acceptance under 21 CFR Sections 175.105, 175.230 and
175.280

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.

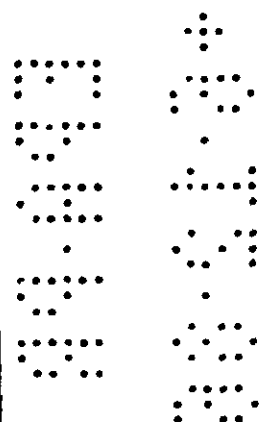
Container Disposal - Completely empty drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot 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 SALE 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 and ask for the Regulatory and Trade Affairs Department.



SUBSIDIARY OF MERCK & CO., INC.

Produced and sold by Calgon Corporation, a wholly-owned subsidiary of Merck & Co., Inc. For further information write to Calgon Corporation, Specialty Chemicals Group, Box 1346, Pittsburgh, PA 15230. Phone 777-8000.

description

Metasol D3T is an organic sulfur compound. The product is an off-white, free-flowing powder. It is a broad-spectrum antimicrobial effective against both bacteria and fungi and *can be used in the manufacture of paper and paperboard for the food-packaging industry*. It is recommended as a slimeicide and preservative for coatings, clay slurries, etc.

recommended uses and applications

FOR PRESERVATIONS 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 .01-0.5%. The exact amount necessary for the preservation of any given formulation 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 .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 beaters 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.

specifications

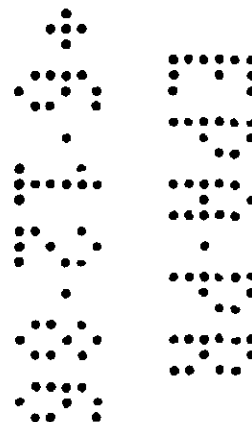
Chemical name	Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione
Description	Crystalline off-white powder
Active ingredient	98% minimum active ingredient
Specific gravity	1.3
Bulk density	10.79 lb./gal.
Solubility	Water — 0.1%

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Under the Federal Insecticide,
Fungicide, and Rodenticide Act
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Bulk 100-lb. lined fiber drums
Small quantities 1-lb. and 1/4-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.

HARMFUL IF SWALLOWED

MAY CAUSE IRRITATION OF SKIN AND EYES

MAY CAUSE SKIN SENSITIZATION

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For additional information regarding incidents involving human and environmental exposure, call (412) 777-8000 and ask for the Regulatory and Trade Affairs Department.

For more information, contact your local Calgon Representative or write:
Water Management Division, Calgon Corporation, P.O. Box 1346, Pittsburgh, PA 15230.



SUBSIDIARY OF HEWLETT & CO., INC.

P.O. BOX 1346 • PITTSBURGH, PA. 15230