

DANGER!
CAUSES EYE DAMAGE AND SKIN IRRITATION
HARMFUL IF SWALLOWED

Do not get in eyes, on skin, on clothing.
Wear goggles or face shield, rubber gloves,
and aprons when handling.
Wash thoroughly after handling.
Do not breathe vapor or spray mist.

FIRST AID: In case of contact, immediately
flush eyes or skin with plenty of water for
at least 15 minutes. For eyes, call a
physician. Remove and wash contaminated
clothing before reuse.

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.

NOTE TO PHYSICIAN: Gastric lavage with a
stomach tube is contraindicated. Measures
against circulatory shock, respiratory
depression, and convulsion may be needed.

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 im-
plied, including but not limited to the
warranties of fitness for a particular purpose
or merchantability.



METASOL D3T-A

Inhibits and Controls Growth of Slime-Forming
Bacteria and Fungi in Pulp and Paper Mills
and in Casein, Emulsions, Sizings,
Pastes and Glue Solutions

ACTIVE INGREDIENTS:

Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione . . . 21%
(present as the Sodium Salt)
Inert Ingredients 79%
"Alkali Solubilized"

For information regarding incidents involving
human and environmental exposure, call
(412) 777-8000 and request to speak to
Regulatory and Trade Affairs

EPA Registration No. 10445-34
EPA Establishment No. 10445-NJ-01

Calgon Corporation
Calgon Center
Pittsburgh, PA 15230

DIRECTIONS FOR USE

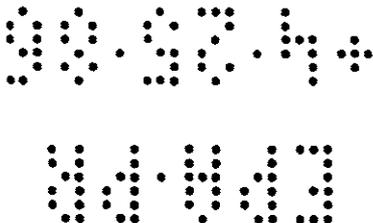
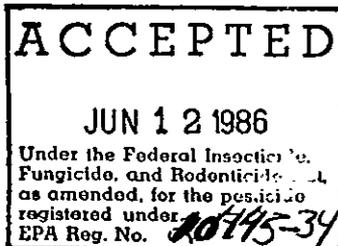
It is a violation of Federal law to use this
product in a manner inconsistent with its
labeling. See product bulletin for
directions.

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.
Plastic Containers - Triple rinse (or
equivalent). Then offer for recycling or
reconditioning, or puncture and dispose of in
a sanitary landfill, by incineration, or if
allowed by State and local authorities, by
burning. If burned, stay out of smoke.

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.



Metasol D3T-A is an aqueous alkaline solution of a saturated thiadiazine. It is completely miscible with water, aqueous acids and alkalis. The product has a broad spectrum of activity against microorganisms and is effective for the control of slime-producing organisms in pulp and paper mills at low cost levels. It can be used as a slimicide in the manufacture of paper and paperboard used in food packaging.

recommended uses and applications

FOR BACTERIAL AND FUNGAL SLIME CONTROL IN PULP AND PAPER MILL SYSTEMS

Dosage

Laboratory test data show that Metasol D3T-A will inhibit the growth of slime forming bacteria and fungi in pulp and paper mill systems. Each mill system varies considerably with respect to the components of the furnish, white water temperatures, the extent of good housekeeping and types of equipment in use. The amount of Metasol D3T-A required to minimize bacterial and fungal slime is best determined by actual test in the system and falls in the range of 5-36 fluid ounces per ton of finished product.

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

Metasol D3T-A can be added directly from the drums to points in the wet end of the mill system by means of pumps or gravity feed. Good agitation is required for rapid dispersion. Continuous addition is the preferred method to insure adequate concentrations. This may be accomplished by use of metering pumps. Shock dosage is to be avoided. Badly fouled systems must be cleaned before treatment is begun.

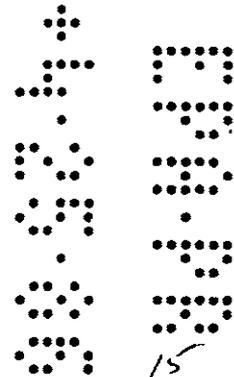
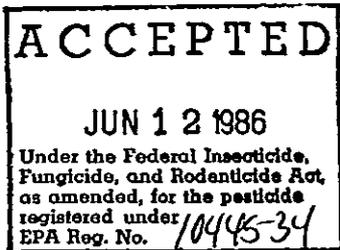
FOR THE PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS AND HIGH VISCOSITY SUSPENSIONS

Dosage

Test data show that Metasol D3T-A is effective as a preservative at use levels of 0.05 - 0.125% (w/w) based on the total formulation in slurries of starch, clay, calcium carbonate or titanium dioxide; paper coatings; high viscosity suspensions (e.g. polymers; silica-polymer combinations); 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 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.



EPA Registration No. 10445-34

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specifications

Chemical name..... Tetrahydro-3, 5-dimethyl-2H-1, 3,
5-thiadiazine-2-thione
Description Nonviscous liquid
Active ingredients 21% minimum tetrahydro-3,
5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione present
as the sodium salt.
Color..... Pale amber
Specific Gravity 1.14-1.18
Weight per gallon..... 9.5-9.8 lbs.
Freezing point 0°F
Flash point..... None

Metasol D3T-A complies with Title 21 Code of Federal Regulations Section 121.2505 (slimicides used in the manufacture of paper and paperboard that contact food) and Section 121.2529 (preservative used in the manufacture and coating of paper and paperboard intended for use in contact with food) when used under conditions specified in the regulations.

packaging

55-gallon lined metal drums; net weight 480 lbs.

precautions

DO NOT use in water intended for human consumption.

Equipment used in contact with full strength Metasol D3T-A should be steel or stainless steel.

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This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds or public waters. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

FIRST AID: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse. If swallowed, promptly induce vomiting by giving a tablespoonful of salt in a glass of warm water; repeat until vomit fluid is clear. Then give milk or white of egg beaten with water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Gastric lavage with stomach pump is contraindicated. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

DISPOSAL OF EMPTY CONTAINERS AND SPILLAGE: Do not reuse empty drum. Send to drum reconditioner or destroy by perforating or crushing and burying in a safe place. Flush spillage with large quantities of water.

For information regarding incidents involving human and environmental exposures, call (412) 777-8000 and request to speak to Regulatory and Trade Affairs.

Calgon representatives are located at service centers throughout the United States, ready to help you on any boiler or cooling water treatment program. For assistance, contact the closest Calgon Regional Office.

BATON ROUGE • BIRMINGHAM • CHARLOTTE • CHATTANOOGA • CHICAGO • DENVER
DETROIT • FARMINGTON • HOUSTON • LOS ANGELES • PHILADELPHIA • PITTSBURGH • ST. LOUIS



SUBSIDIARY OF MERCK & CO., INC.

P. O. BOX 1346 • PITTSBURGH, PA. 15230

CALGON

Metasol® D3T-A

SPECIALTY
CHEMICALS
GROUP

METASOL D3T-A is a preservative which effectively controls microorganisms in casein, emulsions, sizings, pastes, and glue solutions. Chemically, the product is a solution of tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione.

TYPICAL PROPERTIES

Active ingredient	> 21%
Color	Pale amber
Specific gravity	1.14-1.18
Freezing point	0°F
Flash point	> 200°F
pH	> 13

TYPICAL USE LEVELS

Laboratory testing and customer use show METASOL® D3T-A is typically effective at use levels of 0.05-0.1% based on the total formulation weight.

DIRECTIONS FOR USE

METASOL D3T-A should be added at a point in processing where there is sufficient agitation and mixing time to achieve good dispersion.

PACKAGING

METASOL D3T-A is available in lined metal drums containing 480 lbs. net and in bulk.

EQUIPMENT

Equipment used to handle METASOL D3T-A should be plastic, FRP, or stainless steel.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER! CORROSIVE!

CAUSES EYE DAMAGE 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. Do not breathe vapor or spray mist. Wash thoroughly after handling.

STATEMENT 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 contact, wash with soap and water for at least 15 minutes. If irritation persists, get medical attention. Remove and wash contaminated clothing before reuse.

INTERNAL: If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate that use of gastric lavage.

ACCEPTED

JUN 12 1986

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 10445-34

METASOL is a registered trademark of Merck & Co., Inc.
EPA Registration No. 10445-34
FDA acceptance under 21 CFR Sections 176.105, 176.220
and 176.300

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ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge into lakes, streams, or public waters unless in accordance with an NPDES permit. For guidance, contact your Regional Office of the EPA.

STORAGE AND DISPOSAL

METASOL D3T-A is an aqueous solution and can freeze. Containers which have been frozen should be agitated to assure uniformity before product is used. Triple rinse (or equivalent) empty container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

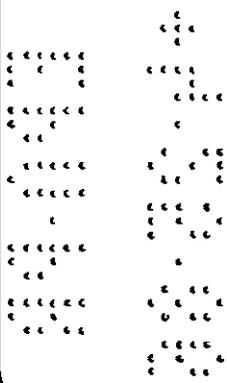
Do not contaminate water, food, or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on a site or at an approved waste disposal facility.

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.



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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.