

METASOL[®]

D3T-A

Product 91536

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**, 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 a stomach
tube is contraindicated. Measures against circulatory
shock, respiratory depression, and convulsion may
be needed.

EPA Est. 2079 NJ 1

**Inhibits and Controls Growth
of Slime-Forming Bacteria
and Fungi in Pulp
and Paper Mills**

NET WT. 480 LB.



MERCK CHEMICAL DIVISION

MERCK & CO., INC. • RAHWAY, NEW JERSEY 07065, U.S.A.

ACTIVE INGREDIENT

Tetrahydro-3, 5 dimethyl-2H-1, 3, 5 thiadiazine
2-thione 21%
(present as the Sodium Salt)

INERT INGREDIENTS

"Alkali Solubilized" 79

DOSAGE - Refer to the Product Data Sheet for
directions.

**DISPOSAL OF EMPTY CONTAINERS AND SPIL-
LAGE** - Do not reuse containers. When empty, rinse
thoroughly with water. Perforate and bury container.

Flush spillage with large quantities of water.

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

NOTICE TO BUYER - Buyer assumes all risks of use
and handling which are at variance in any way with the
directions hereon. There are no warranties which
extend beyond the description on this label.

EPA REG. NO. 2079-13-AA

Made in U.S.A.

8274601

LOT

Paper Chemicals

Merck Chemical Division · Merck & Co., Inc., Rahway, N. J.

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METASOL D3T-A

080576

Product #91536

DESCRIPTION:

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.

SPECIFICATIONS:

Chemical name:	Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione		
Description:	Nonviscous liquid		
Active ingredients:	51% minimum tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione present as the sodium salt.		
Color:	Pale amber	Freezing point:	0°F.
Specific Gravity:	1.12	Flash point:	None
Weight per gallon:	9.3 lb.		

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.

EPA Registration No. 2079-13

METASOL is a registered trademark of Merck & Co., Inc.

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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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HARMFUL IF SWALLOWED.

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Wear goggles or face shield, rubber gloves and aprons when handling.

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

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.

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.

The Merck Chemical Division offers the service 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.