

CONTROL NO.

NET WT. LBS.

WARNING! KEEP OUT OF REACH OF CHILDREN.

(See below for handling precautions)

THIOSTAT-M

A FUNGICIDE FOR FORMULATING USE

COMPOSITION	
Active Ingredient (% by weight)	
Nabam [Disodium ethylene bis(dithiocarbamate)]	30%
Inert Ingredient (% by weight)	
Water	70%
Total	100%

FOR MANUFACTURING USE ONLY

WARNING

Avoid contact with eyes, skin, and clothing. Irritating to eyes, nose, throat, and skin. Harmful if swallowed or inhaled.

FISH AND WILDLIFE

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.

CONTAINER DISPOSAL

Rinse empty container thoroughly with water and discard it.

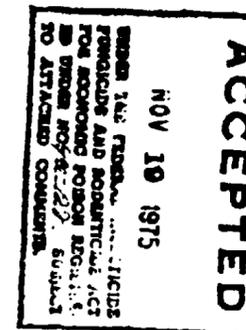
Refer to Technical Bulletin on Thiostat M for information pertinent to formulating.

Formulators of this product are responsible for providing data to support their registration.

FIRST AID

In case of contact with eyes, flush immediately with plenty of water and get medical attention. In case of contact with skin, flush skin with plenty of water. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Get medical attention.

IMPORTANT NOTICE - Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.



EPA Registration No. 400-122-AA

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UNIROYAL CHEMICAL
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Naugatuck® Chemicals



THIOSTAT® M

Bactericide — Fungicide

THIOSTAT® M is a 30% water solution of disodium ethylene bis (dithiocarbamate), designed for use in industrial antimicrobial formulations. It is effective against a wide variety of fungi as well as being active against gram positive bacteria.

The use of disodium ethylene bis (dithiocarbamate) as a slimeicide in the manufacture of paper and paperboard used in food packaging is permitted by FDA. (Sub part F, Section 121.2505 of the Food Additive Regulations).

THIOSTAT M is stable in alkaline solution. In acid solution hydrolysis occurs. For this reason it should not be used in acidic formulations.

TYPICAL PROPERTIES

Form	Amber to brown liquid.
% Active ingredient	30
pH	9-11
Specific gravity	1.18
Solubility	Soluble in water and polar solvents. Insoluble in other common organic solvents.

HANDLING and STORAGE

Extended storage in partially filled containers should be avoided. Although THIOSTAT M tends to form supersaturated solutions down to about 40°F, it will crystallize at 60°F if seeded. Therefore, storage above 60 F is recommended. If crystals form, they may be redissolved by warming above 60 F. THIOSTAT M should not be mixed with acids, since hydrolysis and formation of carbon disulfide will result.

TOXICITY AND SAFETY PRECAUTIONS

Disodium ethylene bis (dithiocarbamate), the active ingredient, has an oral LD₅₀ against rats of 395 mg. kg. body weight. THIOSTAT M may also be irritating to skin and mucous membranes. Gloves, goggles and protective clothing should be worn when handling. In case of accidental ingestion, induce vomiting and call a physician. Copious quantities of water should be used to remove material that has contacted skin or eyes.

The recommendations for the use of our products are based on tests believed to be reliable. However, we do not guarantee the results to be obtained by others under different conditions. Nothing in this brochure is intended as a recommendation to use our products so as to infringe on any patent.

