AMERSTAT 233

FOR CONTROL OF THE GROWTH OF BACTERIA AND FUNGI

ACTIVE INGREDIENTS:

3, 5 Dimethyl-tetrahydro-2-H, 1, 3, 5,-thiadiazine-2-thione	24%
INERT INGREDIENTS*	**76%**

* Inert Ingredients include solubilizing agents.

EPA Reg. No. 1757-41

SPECIALTY CHEMICALS DIVISION

DREW CHEMICAL CORPORATION

20 JEFFERSON RD PARSIPPANY NJ 07054

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FOR INDUSTRIAL USE ONLY

This product helps control the growth of bacterial and fungal slime in paper mills. As a preservative this product is effective in preventing the growth of bacteria and fungi in water-containing systems including latex paints, adhesives, coatings and cutting fluids. For specific dosage ranges and use-directions refer to the Product Data Sheet.

This product is toxic to fish and other wild life. Keep out of lakes, streams, or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

WARNING

KEEP OUT OF REACH OF CHILDREN

AMERSTAT 233 is a toxic material. Causes skin irritation. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not take internally. In case of swallowing, call a physician immediately.

Do not reuse empty container. Container should be destroyed by perforation or crushing. Discard container in a safe place.

Contents: 55 Gallons Liquid
See Markings on Top of Drum
For Net Weight

SPECIALTY CHEMICALS

P. O. BOX 248, PARSIPPANY, NEW JERSEY 07054

Specialty Chemicals Division

United States Filter Corporation

AMERSTAT 233

General

AMERSTAT 233 is a water soluble, non-metallic compound possessing broad spectrum anti-microbial activity. AMERSTAT 233 is applicable for use as a slimicide to control the growth of bacterial slime in pulp and papermills; and as a preservative in water-containing systems including latex paints, resin emulsions, adhesives, paper coatings and cutting fluids.

AMERSTAT 233 may be used to control the growth of slime on machines which make paper and paperboard for use in food packaging. AMERSTAT 233 complies with the provisions of Title 21 - Code of Federal Regulations - Section 121.2505 of the Food Additive regulations and may be used under conditions specified in the regulations. Also under Title 21, AMERSTAT 233 may be used as an anti-microbial agent in adhesives, animal glues, and coatings for paper, paperboard, and foodboard.

SPECIFICATIONS

Chemical Name:	3,5-Dimethyltetrahydro-2H,1,3,5-thiadiazine-2-thione
Description:	Non-viscous liquid
Color:	Pale yellow
Flash Point:	None
pH:	13-14 (when drummed)
Weight per gallon:	9.6
Specific Gravity:	1.15 ± 0.02
Solubility:	Miscible with water in all proportions
Packaging:	55 gallon, lined, steel drums

DIRECTIONS

Dosage

The dosage of AMERSTAT 255 for any given application will depend on a number of factors such as the type of system being treated, the nature and extent of microbiological contamination, the degree of control required, temperature and pH. Generally AMERSTAT 255 dosages are in the range of 10 to 1000 ppm of product (1.32 - 0.066 gallons per 1000 gallons water). Where necessary, your Drew Service Engineer will arrange for microbiological and chemical analyses for resolution of specific site contamination problems.

PAPER MILLS

Dosage will vary from 0.4 to 4.0 pounds (0.166 to 1.66 quarts) of product per ton of stock, dry basis (2.0 to 20.0 ppm of product) depending upon the type of stock, complexity of the system, quality of the raw water, and type and degree of contamination. This dosage is based on the flow of water and pulp at maximum dilution, for treatment periods of three hours out of each twenty-four.

AMERSTAT 255 may be drip fed continuously from the drum or be fed by any suitable chemical feed system such as a proportioning pump. In pulp and paper mills, it should be fed as early as possible in the system where good agitation may be insured. Recommended feeding locations include the hydropulper, machine chest and broke systems.

PRESERVATIVE APPLICATIONS

Emulsions

For the preservation of starches and high viscosity emulsion formulations, AMERSTAT 255 should be added at a point in processing where there will be sufficient time and agitation for good dispersion. Where product is processed at elevated temperatures AMERSTAT 255 should be added as soon as possible after the product has been treated, preferably when the temperature is depressed to a practical limit. In general AMERSTAT 255 is effective as an in-can preservative at use levels of 0.05% to 0.25% (0.5 to 2.5 pounds of AMERSTAT 255 per 1000 pounds of product to be preserved). The exact amount of 255 needed can best be determined by actual [illegible]

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AMERSTAT 255 is an effective microbiocide used in controlling bacteria, yeasts and fungi in both soluble and synthetic cutting fluids. This biological control is advantageous in extending the useful life of the cutting fluid by controlling foul odors, pH drifts, and corrosion related to microbial growth.

CUTTING FLUIDS - cont'd:

For best results, drain and clean the system before adding fresh cutting fluids.

For treating a fresh system AMERSTAT 233 should be slug dosed 0.05% to 0.5% (0.347 pints to 3.470 pints of product per 100 gallons of diluted cutting fluid). Although each fluid system will vary, dosage should be repeated every thirty to forty-five days or as needed for the desired control.

HANDLING

AMERSTAT 233 is a concentrated toxicant which may cause skin or eye irritation or be harmful if swallowed. Do not take internally. Wear protective gloves and goggles when handling. In case of contact flush area with large amounts of water. In case of swallowing, call a physician.

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