AMERSTAT 274

MICROBIOCIDE
FOR INDUSTRIAL USE ONLY

AMERSTAT® 274 microbiocide helps control the growth of bacterial slime in beet sugar processing. This product is also effective as a slimicide for controlling the growth of slime in papermills. It is also effective as a preservative in aqueous systems including paint and coatings, adhesives and animal glues, inks, latex, mineral slurries, drilling muds, metal working fluids and paper coatings. AMERSTAT® 274 microbiocide is an effective mildewicide in paints and coatings and in adhesives and animal glues.

DIRECTIONS FOR USE

GENERAL CLASSIFICATION:
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Refer to the AMERSTAT® 274 Product Data Sheet for use directions and other technical information.

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food, or feed by storage or disposal. Store in a cool dry place. Avoid extreme heat or freezing. Keep container closed. Do not store in confined areas where vapors can concentrate.

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.
Triple rinse (or equivalent) all containers then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic containers may also be disposed of by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Manufactured in the United States
ES-311-R-7/84

ACTIVE INGREDIENTS

Sodium dimethyldithiocarbamate	12%
Disodium ethylene bisdithiocarbamate	12%
Ethylenediamine	8%
INERT INGREDIENTS	68%

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately.

If on skin, wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

If in eyes, flush with plenty of water for at least 15 minutes. Call a physician.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 1757-61-AA
EPA Est. No. 1757-NJ-1
1757-NJ-2
1757-TX-1

ACCEPTED
OCT 2 9 1984
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1757-61

Drew Chemical Corporation
One Drew Chemical Plaza, Boonton, New Jersey 07005
Phone (201) 263-7600/Telex 136444

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE
CAUSES EYE AND SKIN DAMAGE
HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN

Do not get in eyes, on skin or clothing. Keep container closed when not in use. Wear goggles or face shield, rubber gloves and protective clothing (long sleeve shirt, long pants and boots) when handling. Wash thoroughly after handling. See statement of practical treatment.

ENVIRONMENTAL HAZARDS

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

NET CONTENTS MARKED ON DRUM

IMPORTANT NOTICE Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label under normal conditions of use. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES WHETHER WRITTEN, ORAL OR IMPLIED. THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN OTHER RESPECTS THAN AS EXPRESSLY SET FORTH HEREIN, ARE EXPRESSLY EXCLUDED AND DISCLAIMED

the beet sugar process. AMERSTAT® 274 is also effective in controlling the growth of slime in papermills. AMERSTAT® 274 is effective as a preservative in aqueous systems including paint and coatings, adhesives and animal glues, inks, latex, mineral slurries, drilling muds, metal working fluids, and paper coatings. It is also an effective mildewicide in paints and coatings and in adhesives and animal glues.

TYPICAL PROPERTIES

Composition:	A synergistic blend of sodium dimethyldithiocarbamate disodium ethylene bisdithiocarbamate and ethylene diamine.
Appearance:	Clear to pale yellow liquid
Specific Gravity:	1.09 - 1.13
Weight per US Gallon:	9.2 pounds
pH:	10.5 - 13.5
Solubility:	Miscible with water in all proportions
Freeze Point:	2°F/-16°C to 14°F/-10°C

ACCEPTED
OCT 29 1984
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1757-61

PACKAGING

Container:	55 gallon lined steel drums and bulk
Net Weight:	520 lbs/drum

PC-DS-208

BEET SUGAR APPLICATIONS

AMERSTAT® 274 microbiocide should be fed directly into the process with both the fresh water entering the diffuser and into the pressed pulp water return line to the diffuser. Your Drew Representative will assist in designing a suitable feed system to attain maximum performance.

FDA DATA

AMERSTAT® 274 complies with Title 21, Code of Federal Regulations Section 173.320 (Chemicals for controlling microorganisms in cane-sugar and beet-sugar mills) of the Food Additive regulations and may be used under conditions specified in the regulations.

DOSAGE AND FEEDING - BEET SUGAR

AMERSTAT® 274 microbiocide should be fed continuously at a rate of 12.5 - 25 parts of product per million parts of beets sliced per day. In general, a feed rate of 12.5 ppm will provide adequate control; however, the feed rate may be increased to a maximum of 25 ppm when slicing beets deteriorated by freezing or lengthy storage.

Proper feed of AMERSTAT® 274 microbiocide is best obtained through the use of a chemical feed pump such as the adjustable proportioning type; the variable speed, positive displacement type; or the reciprocating type. The required dosage will depend on the average daily rate of beets sliced. The following chart has been prepared to assist in determining the correct dosage of AMERSTAT® 274 microbiocide in milliliters and ounces per minute:

Tons of Beets Sliced/Day	Rate of Feed - 12.5 ppm Ml/Min.	Oz./Min.	Rate of Feed - 25 ppm Ml/Min.	Oz./Min.
1,000	6.808	0.23	13.62	0.46
2,000	13.62	0.46	27.24	0.92
3,000	20.43	0.69	40.86	1.38
4,000	27.24	0.92	54.48	1.84
5,000	34.05	1.15	68.10	2.30
6,000	40.86	1.38	81.72	2.76
7,000	47.67	1.61	95.34	3.22
8,000	54.48	1.84	108.96	3.68
9,000	61.29	2.07	122.58	4.14
10,000	68.10	2.30	136.20	4.60

Do not exceed a feed rate of 5.175 gallons (47.61 pounds) of product per 1000 tons of beets sliced per twenty-four hours.

PAPERMILL SLIMICIDE, PRESERVATIVE AND MILDEWCIDE APPLICATION

The dosage of AMERSTAT® 274 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. AMERSTAT® 274 should be added at a point in the system where sufficient agitation will insure good dispersion. Where necessary, your Drew representative will arrange for microbiological and chemical analysis to resolve specific contamination problems.

DOSAGE AND FEEDING - PAPERMILL SLIMICIDE

AMERSTAT® 274 is effective in controlling the growth of slime producing microorganisms which may adversely affect the production of paper and paperboard by causing breaks or spots. Dosage will vary from 0.5 to 2.0 pounds of AMERSTAT® 274 per ton of dry paper or paperboard products. Dosage depends on the type of stock, complexity of the system, quality of raw water and type and degree of contamination. AMERSTAT® 274 may be drip fed continuously from the drum or fed by any suitable chemical feed system. Feed points may include the hydropulper, machine chest or broke system.

DOSAGE AND FEEDING - PRESERVATIVE APPLICATIONS

Many aqueous systems require protection against microbial degradation which may result in changes in physical properties or performance characteristics such as pH drift, viscosity and color variations, and foul odor emissions. AMERSTAT® 274 will effectively protect paints and coatings, adhesives and animal glues, latex, inks, paper coatings and mineral slurries when used at a dosage level of 0.05-1.00%. Cutting fluids and other metal-working fluids are generally protected with 0.1-0.5%.

AMERSTAT® 274 is also an effective preservative useful in controlling bacterial and fungal growths in drilling muds, gypsum muds, packer fluids and underground flood water. Treatment levels are 0.005-1.0% by weight per barrel of mud or packer fluid and 10-500 ppm in underground flood water.

With any preservative application, AMERSTAT® 274 should be added as early as possible to the system and should be added where there is good agitation. Good housekeeping and protection of raw materials will aid in the effectiveness of the preservative.

DOSAGE AND FEEDING - MILDEWCIDE APPLICATIONS

Paints and other coatings, adhesives and animal glues are also subject to biodegradation after the material has been applied and allowed to cure. This growth may result in discoloration and deterioration of the film. AMERSTAT® 274 at a dosage of 0.1-1% will protect these films from attack by mildew.

E.P.A. Reg. No. 1757-61