

AMERSTAT® 277

MICROBIOCIDES

FOR CONTROL OF THE GROWTH OF BACTERIA
FOR INDUSTRIAL USE ONLY

This product helps control the growth of bacteria responsible for inversion and slime formation during cane and beet sugar processing.

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® 277 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. Open dumping is prohibited. If plastic, do not reuse empty container.

DISPOSAL: Pesticide or waste that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. Triple rinse (or equivalent) all containers and for metal containers offer for recycling or reconditioning (for plastic containers dispose of in an incinerator), or dispose in landfill approved for pesticide containers or bury in a safe place. Consult federal, state or local disposal authorities for approved alternative procedures.



Drew Chemical Corporation

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Manufactured in the United States
E577-882-P.A

ACTIVE INGREDIENTS

Potassium N-methyldithiocarbamate	20.51%
Dipotassium cyanodithiocarbamate	14.49%
INERT INGREDIENTS	65.00%

KEEP OUT OF REACH OF CHILDREN WARNING

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes skin and eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed or absorbed through skin. Avoid contamination of food.

Wear goggles and rubber gloves when handling. Wash thoroughly after handling. See statement of practical treatment.

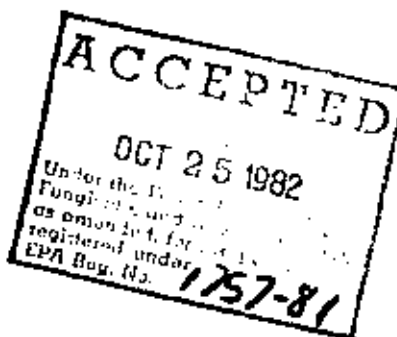
ENVIRONMENTAL HAZARDS

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 -- As Marked on Drums

EPA Reg. No. 1757-81
EPA Est. No. 1757-NJ-1
1757-NJ-2
1757-TX-1

IMPORTANT NOTICE: Seller warrants that the product conforms to the chemical description and is suitable for the purposes stated on the label under normal conditions of use. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ALL 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.



Product Data

AMERSTAT® 277

Microbiocide

GENERAL

AMERSTAT® 277 microbiocide is a highly effective blend of organo-sulfur compounds specifically formulated for controlling the growth of bacteria responsible for inversion and slime formation during the sugar manufacturing process. AMERSTAT 277 complies with Title 21-Code of Federal Regulations Section 173.320 (Chemicals Used for the Control of Microorganisms in Cane-Sugar and Beet-Sugar Mills) of the Food Additive regulations and may be used under conditions specified in the regulations.

TYPICAL PROPERTIES

Composition:	A blend of disodium cyanodithioimido-carbonate and potassium N-methyl dithiocarbamate
Appearance:	pale yellow liquid
Specific Gravity:	1.18 ±.02
Weight per US Gallon:	9.8 pounds
pH:	12.0
Solubility:	Miscible with water in all proportions
Freeze Point:	1°F

APPLICATION - BEET SUGAR

AMERSTAT 277 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.

DOSAGE AND FEEDING

AMERSTAT® 277 microbicide should be fed continuously at a rate of 10 - 20 parts of product per million parts of beets sliced per day. In general, a feed rate of 10 ppm will provide adequate control; however, the feed rate may be increased to a maximum of 20 ppm when slicing beets deteriorated by freezing or lengthy storage.

Proper feed of AMERSTAT® 277 microbicide 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 277 microbicide in milliliters and ounces per minute:

Tons of Beets Sliced/Day	Rate of Feed - 10 ppm		Rate of Feed - 20 ppm	
	ML/Min.	Oz/Min.	ML/Min.	Oz/Min.
1,000	5.4	0.187	10.7	0.374
2,000	10.7	0.374	21.4	0.748
3,000	16.1	0.561	32.2	1.122
4,000	21.4	0.748	42.9	1.496
5,000	26.8	0.935	53.7	1.870
6,000	32.2	1.122	64.4	2.244
7,000	37.5	1.309	75.0	2.618
8,000	42.9	1.496	85.8	2.992
9,000	48.3	1.683	96.6	3.366
10,000	53.7	1.870	107.4	3.740

Do not exceed a feed rate of 4 gallons (39.2 pounds) of product per 1000 tons of beets sliced per twenty-four hours.

APPLICATION - CANE SUGAR

AMERSTAT 277 is a liquid which should be fed directly into the cane juice so that the treated juice circulates to all parts of the mill tandem. The point or points of addition will depend on mill design. Frequently, the dosage will be split between the crusher juice which is circulated back to the crusher or first mill. Do not add this product to the maceration water. Your Drew Representative will determine the most advantageous points of application.

DOSAGE AND FEEDING

AMERSTAT 277 should be fed continuously at the rate of 10 - 20 parts of product per million parts of cane ground per day. Ten ppm of product is the standard dosage. This may be raised up to a maximum of 20 ppm, if

necessary. Conditions warranting some increase would be grinding of cane damaged through freezing, poor weather, or delays between cutting and grinding.

Proper feed of AMERSTAT 277 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 cane ground. The following chart shows the proper dosage in milliliters and ounces of AMERSTAT 277 to be used per minute.

RATE OF FEED OF AMERSTAT® 277 MICROBIOCIDAL

Short Tons of Cane Ground per day	Rate of Feed - 10 ppm		Rate of Feed - 20 ppm	
	ML/Min.	Oz/Min.	ML/Min.	Oz/Min.
1,000	5.4	0.187	10.7	0.374
2,000	10.7	0.374	21.4	0.738
3,000	16.1	0.561	32.2	1.122
4,000	21.4	0.748	42.9	1.496
5,000	26.8	0.935	53.7	1.870
6,000	32.2	1.122	64.4	2.244
7,000	37.5	1.309	75.0	2.618
8,000	42.9	1.496	85.8	2.992
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Do not exceed feed rate of 4 gallons (39.2 pounds) of product per 1000 short tons of cane ground per twenty-four hours.

The use of AMERSTAT 277 does not replace good housekeeping. This should include regular cleaning at least once per shift. Regular hosing of mills, bagacillo conveyors, and screens with hot water and steam is essential for maintaining efficient control of microbiological slime and sucrose losses.

PACKAGING AND HANDLING

AMERSTAT 277 microbicide is available in 55 gallon lined steel drums weighing 520 pounds net. Avoid freezing or excessive heat. Causes eye and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.

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

ENVIRONMENTAL CAUTION

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.

AMERSTAT is a registered trademark of Drew Chemical Corporation.

EPA Reg. No. 1757-81