

DANGER

MAY BE FATAL OR HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN.

CAUSES SEVERE SKIN IRRITATION AND EYE DAMAGE.

DO NOT BREATHE VAPOR OR SPRAY MIST.

KEEP AWAY FROM HEAT AND OPEN FLAME.

KEEP CONTAINER CLOSED.

Keep Out of Reach of Children. Corrosive. Causes severe skin irritation and eye damage. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or if swallowed. Avoid contamination of food.

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, drink promptly a tablespoon of salt in warm water and repeat until vomit fluid is clear. Drink large quantity of milk, egg whites beaten in water, or gelatin solution. If these are not available, drink large quantity of water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

Do not reuse empty drum. Rinse empty drum thoroughly with water before returning to reconditioner or discarding.

This product is toxic to fish. Treated effluent should not be discarded where it will drain into lakes, streams, ponds or public water. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply product only as specified on this label and in H 133 Product Bulletin 11-41b.

E.P.A. Registration No. 10445-3

E.P.A. Est. 10445-PA-1

6224-40A



SUBSIDIARY OF MERCK & CO., INC.

H-133

MICROBIOCIDIC AND DEPOSIT INHIBITOR

FOR CONTROL OF BACTERIAL GROWTH IN INDUSTRIAL RECIRCULATING COOLING WATER TOWERS

DANGER: KEEP OUT OF REACH OF CHILDREN
See panel at left for first aid and additional precautionary statements.

Net Weight 40 Lb. Drum

CALGON CORPORATION
CALGON CENTER • PITTSBURGH, PA. 15230



62240

METHOD OF FEEDING

Badly fouled systems should be cleaned before initiating treatment. Begin treatment when system is in jeopardy of becoming affected or after cleaning systems whose efficiency is already impaired. Slug feed H-133 as received—do not mix with other chemicals. Do not overfeed.

Treatment should be applied at cooling tower sump, suction side of recirculating pump, or any other point that assures good mixing with system water. Slug feeding should be timed so that the entire dose is applied within a one hour period.

Recommended dosages allow for normal water loss due to evaporation, drift and system blowdown and afford adequate contact time with organisms. Your Calgon representative will provide technical assistance in determining optimum dosages in relation to specific plant conditions or problems.

Initial dosage: If system is noticeably fouled, slug feed 6.6 to 13.2 fluid ounces of H-133 per 1000 gallons of water in the system (50 to 100 mg/l). Repeat until control is achieved.

Subsequent dosage: After bacterial control is achieved, feed 3.3 to 6.6 fluid ounces of H-133 per 1000 gallons of water in the system (25 to 50 mg/l). Apply treatment two to three times per week, or as needed to maintain control.

Active Ingredients:
n-Dodecylguanidine Hydrochloride ... 12.25%
Isopropanol 5.25%

Inert Ingredients: 82.50%
Softened Water, Ethylene Glycol, Dimethyl Diallyl Ammonium Chloride Polymer (Cat-Floc)

Made in U.S.A.

H-133 Microbiocide and Deposit Inhibitor is a liquid formulation of silt dispersing agent and an organic microbiocide based on a cationic nitrogen compound. It produces no noticeable odor and is essentially nonfoaming at use concentrations.

purposes

H-133 is used to control buildup of troublesome bacteria in industrial recirculating cooling water systems. It is particularly effective when deposits are caused by bacterial slime matrices and entrapped silt.

advantages

- Non-oxidizing and non-volatile; will not attack cooling tower wood at use concentrations
- Noncorrosive to system metal at use concentrations
- Nonflammable
- Compatible with other treatments at use concentrations
- Essentially nonfoaming at use concentrations

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specifications

appearance	clear, pale yellow liquid
specific gravity	1.04
weight/gallon	8.7 lbs
pH as supplied	3.0
flash point (TOC)	over 200 °F
freezing point	- 21 °F
cloud point (do not feed below this temperature)	+ 40 °F



Slime masses frequently accumulate in low flow areas of the cooling tower system. H-133 contains dispersing agents to control slime and other accumulations.

storage

H-133 is stable at room temperature. Some haziness may occur in subfreezing weather, but placement of the product in a heated storage area will return it to original condition with biocidal properties unimpaired. Do not store near heat or open flame. Keep container closed when not in use.

packaging

Available in 5-gallon cans (40.0 lbs net) and 55-gallon nonreturnable steel drums (430 lbs net). Freight classification: Disinfectants, other than medicinal and other toilet preparations. EPA Registration No. 10445-37

precautions

DANGER -- Keep out of reach of children. Harmful or fatal if swallowed. Product is corrosive and can cause severe eye and skin damage. Avoid contact with skin, eyes and clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing spray mist. Do not use, pour, spill or store near heat or open flame. Avoid contamination of food. Do not reuse empty drum. Rinse empty drum thoroughly with water before returning to reconditioner or discarding.

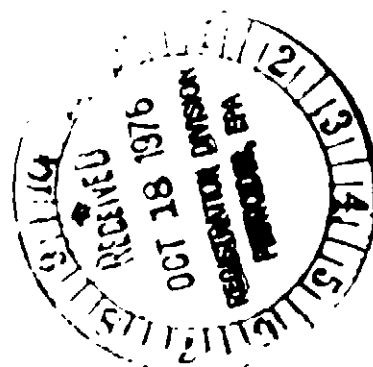
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If swallowed, give promptly a tablespoon of salt in warm water and repeat until vomit fluid is clear. Give large quantity of milk, or egg whites beaten in water. If these materials are not available, give large quantity of water. Call a physician immediately.

NOTE TO PHYSICIAN -- Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

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(703) 521-7800
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For technical assistance regarding specific on-site problems, contact Cooling Water Department, Water Management Division, Calgon Corporation, P. O. Box 1346, Pittsburgh, PA 15230



SUBSIDIARY OF MERCK & CO. INC.

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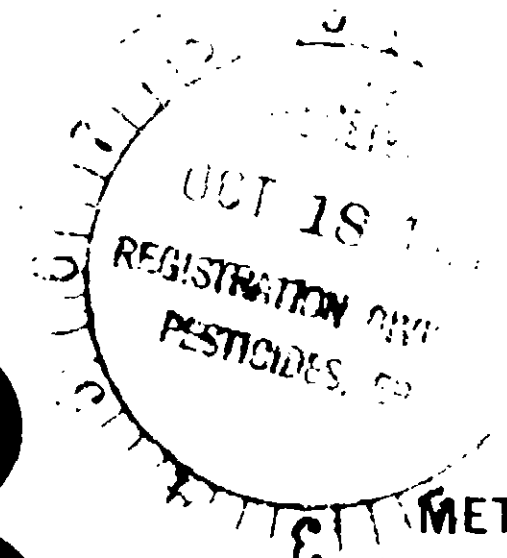
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MICROBIOCIDAL AND DEPOSIT INHIBITOR

CHEMICAL PRODUCT BULLETIN

UNDER THE FEDERAL ANTI-CORRUPTION ACT
 FEDERAL BUREAU OF INVESTIGATION
 127 UNION PKWY.

Description

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freezing point	-1 F
cloud point (observed) with water at temperature	-1 F

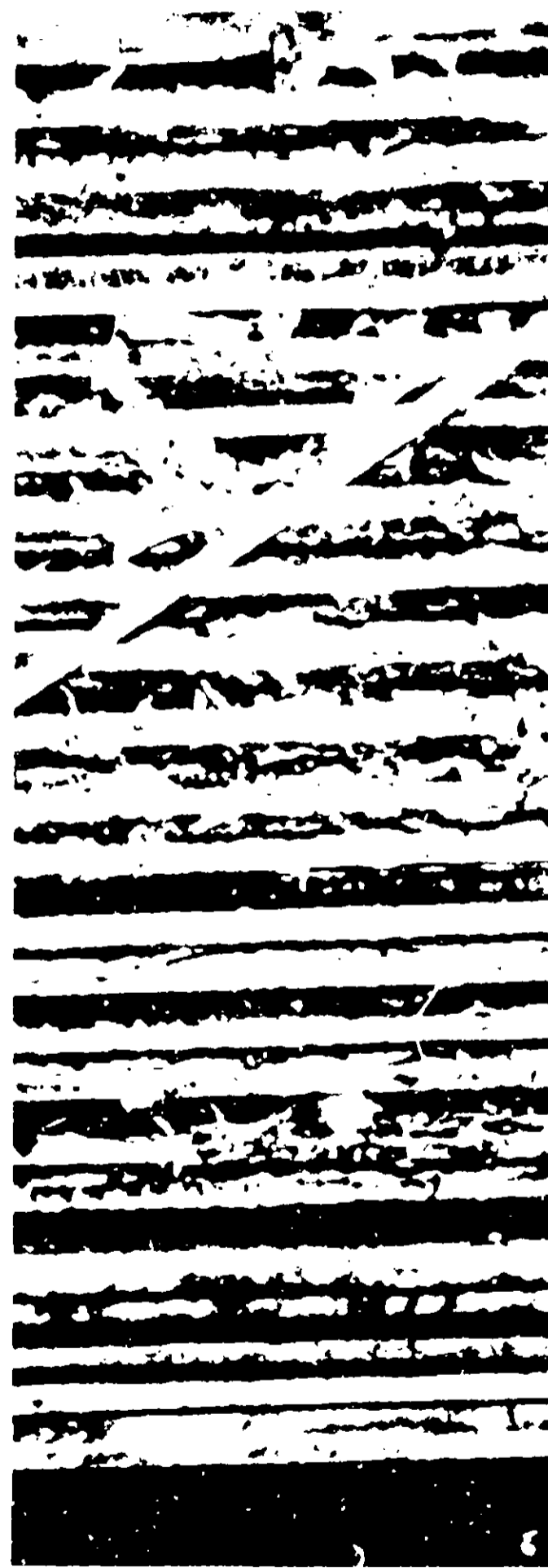


Figure 1. The effect of H-133 on industrial equipment fouling. The top row shows equipment before treatment, and the bottom row shows equipment after treatment.

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