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SUBSIDIARY OF MERCK & CO., INC

H-133

MICROBIOCIDES AND DEPOSIT INHIBITOR

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER CORROSIVE
CAUSES EYE DAMAGE AND SKIN IRRITATION
MAY BE HARMFUL OR FATAL IF SWALLOWED

DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.
WEAR GOGGLES OR FACE SHIELD AND RUBBER GLOVES
WHEN HANDLING.

STATEMENT OF PRACTICAL TREATMENT

EYES: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL AID.
SKIN: IN CASE OF CONTACT, IMMEDIATELY WASH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.
INTERNAL: IF SWALLOWED, CALL A PHYSICIAN OR POISON CONTROL CENTER. DRINK 1 OR 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING BACK OF THROAT WITH FINGER OR, IF AVAILABLE, BY ADMINISTERING SYRUP OF IPECAC. DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
NOTE TO PHYSICIAN: PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE. MEASURES AGAINST CIRCULATORY SHOCK, RESPIRATORY DEPRESSION AND CONVULSION MAY BE NEEDED.

6224-55/03-91

FOR CONTROL OF BACTERIAL GROWTH IN INDUSTRIAL
RECIRCULATING COOLING WATER TOWERS AND SULFATE
REDUCING BACTERIA IN FLUE GAS DESULFURIZATION
SCRUBBERS OF INDUSTRIAL COOLING TOWERS

ACTIVE INGREDIENTS:
N-ETHYLENEGLYLGUANIDINE HYDROCHLORIDE..... 12.25%
INERT INGREDIENTS 87.75%

ACCEPTED
JUN 04 1991
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 10445-3

**KEEP OUT OF REACH
OF CHILDREN
DANGER**

SEE PANEL AT LEFT FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA REGISTRATION NO. 10445-3
EPA ESTABLISHMENT NO. 10445-PA-01

DIRECTIONS FOR USE:
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A
MANNER INCONSISTENT WITH ITS LABELING.
CONSULT PRODUCT BULLETIN FOR USE DIRECTIONS.

NET WT. 460 LBS. (208.7 KG.)

CALGON CORPORATION
CALGON CENTER • PITTSBURGH, PA. 15230

**STORAGE AND
PROHIBITIONS - DO NOT
DISPOSAL. KEEP AWAY FROM
PESTICIDE DISPOSAL -
DISPOSAL OF EXCESS PER
OF FEDERAL LAW. IF T
TO LABEL INSTRUCTIONS
CONTROL AGENCY, OR THE
EPA REGIONAL OFFICE FOR
CONTAINER DISPOSAL: P
THEN OFFER FOR RECYCL
OF IN A SANITARY LAND
STATE AND LOCAL AUTHORITY
OF SMOKE.**

**ENVIRONMENTAL
THIS PRODUCT IS TOXIC
THIS PRODUCT INTO LAKE
WATERS UNLESS THIS OR
AN IMPROPER PERMIT. DO
SEWER SYSTEMS WITHOUT
AUTHORITY. FOR GUIDANCE
OFFICE OF THE ENVIRONMENTAL
PROTECTION AGENCY
NOTICE: SELLER EXPRESSLY
ITS CHEMICAL DESCRIPTION
WITH THE SALE OF THIS
BUT NOT LIMITED TO THE
OR MERCHANTABILITY.**

Information concerning
Material Safety Data
Sheet should be
available from the
Department

PM-31
Reg # 10445-3

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H-133

00-6224-55

FORMERLY: 6224R

PRODUCT CODE

MICROBIOCIDAL AND DEPOSIT INHIBITOR

FOR CONTROL OF BACTERIAL GROWTH IN INDUSTRIAL
RECIRCULATING COOLING WATER TOWERS AND SULFATE
REDUCING BACTERIA IN FLUE GAS DESULFURIZATION
SCRUBBERS OF INDUSTRIAL COOLING TOWERS

STORAGE AND DISPOSAL

PROHIBITIONS - DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. KEEP AWAY FROM HEAT AND OPEN FLAME. KEEP CONTAINER CLOSED.
PESTICIDE 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.

CONTAINER DISPOSAL: PLASTIC CONTAINERS - TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING AND RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, BY INCINERATION, OR IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

ENVIRONMENTAL HAZARDS

THIS PRODUCT IS TOXIC TO FISH. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT INTO LAKES, STREAMS, PONDS, ESTUARIES, OCEANS, OR PUBLIC WATERS UNLESS THIS PRODUCT IS SPECIFICALLY IDENTIFIED AND ADDRESSED IN AN APPLICABLE PERMIT. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT TO SEWER SYSTEMS WITHOUT PREVIOUSLY NOTIFYING THE SEWAGE TREATMENT PLANT AUTHORITY. FOR GUIDANCE, CONTACT YOUR STATE WATER BOARD OR REGIONAL OFFICE OF THE ENVIRONMENTAL PROTECTION AGENCY.

NOTICE: SELLER EXPRESSLY WARRANTS THAT THE PRODUCT CONFORMS TO ITS CHEMICAL DESCRIPTION. THERE ARE NO WARRANTIES ASSOCIATED WITH THE SALE OF THIS PRODUCT EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

Information concerning human environmental exposure may be reviewed on Material Safety Data Sheet for this product

For additional information regarding incidents involving human and environmental exposure, call 412-777-8000 and ask for the Health and Environmental Affairs Department

ACTIVE INGREDIENTS:

HEPTAMETHYLCYANURIC ACID HYDROCHLORIDE..... 12.25%
INERT INGREDIENTS 87.75%

OSIVE
IN IRRITATION
IF SWALLOWED

ON CLOTHING.
RUBBER GLOVES

TREATMENT

IMMEDIATELY FLUSH EYES WITH
CLEAN WATER. SEEK MEDICAL AID.

IMMEDIATELY WASH WITH PLENTY OF
WATER. REMOVE AND WASH CONTAMINATED

SEEK MEDICAL ATTENTION FROM A
PHYSICIAN OR POISON CONTROL
AGENCY. INDUCE VOMITING WITH
1/2 TEASPOONFUL OF 1% SODIUM
BICARBONATE SOLUTION. IF
VOMITING DOES NOT OCCUR,
DO NOT INDUCE VOMITING OR
USE OF EMETICS ON AN
UNCONSCIOUS PERSON.

SEEK MEDICAL ATTENTION. FIRST
AID MEASURES AGAINST CIRCULATORY
ARREST. RESUSCITATION MAY BE NEEDED.

ACCEPTED
JUN 04 1991
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 10445-3

**KEEP OUT OF REACH
OF CHILDREN
DANGER**

SEE PANEL AT LEFT FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA REGISTRATION NO. 10445-3
EPA ESTABLISHMENT NO. 10445-PA-01

DIRECTIONS FOR USE:
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A
MANNER INCONSISTENT WITH ITS LABELING.
CONSULT PRODUCT BULLETIN FOR USE DIRECTIONS.

NET WT. 460 LBS. (208.7 KG.)

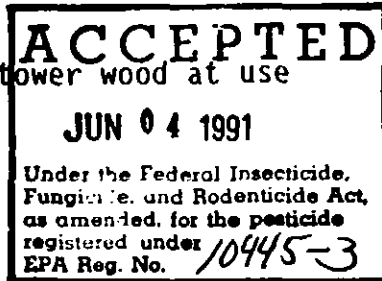
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H-133 Microbiocide and Deposit Inhibitor is a liquid formulation of silt dispersing agent and an organic microbiocide based on a cationic nitrogen compound. It produces no noticeable odor and is essentially nonfoaming at use concentrations.

H-133 Microbiocide and Deposit Inhibitor 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

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



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.

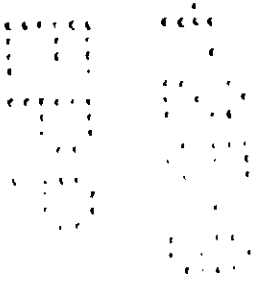
Recommended dosages allow for normal water loss due to evaporation, drift and system blowdown and afford adequate contact time with organisms. Your Calgon representative will provide technical assistance in determining optimum dosages in relation to specific plant conditions or problems.

INITIAL DOSAGE: If system is noticeable 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.

TYPICAL PHYSICAL PROPERTIES

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



EPA Registration No. 10445-3

PACKAGING

H-133 is available in 5-gallon cans, 30-gallon plastic drums, 55-gallon plastic drums, returnable bins, and in bulk.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER CORROSIVE KEEP OUT OF REACH OF CHILDREN

CAUSES EYE DAMAGE AND SKIN IRRITATION

MAY BE HARMFUL OR FATAL IF SWALLOWED

Do not get in eyes, on skin or on clothing.

Wear goggles or face shield and rubber gloves when handling.

STATEMENT OF PRACTICAL TREATMENT

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical aid.

SKIN: In case of contact, immediately wash with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before reuse.

INTERNAL: If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

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

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

STORAGE AND DISPOSAL

H-133 Microbiocide 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.

Prohibition - Do not contaminate water, food or feed by storage or disposal. Keep away from heat and open flame. Keep container closed.

Pesticide 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.

Container Disposal: Plastic containers - triple rinse (or equivalent). Then offer for recycling and reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For technical assistance regarding specific on-site problems, contact

Cooling Water Department

CALGON CORPORATION

P. O. Box 1346, Pittsburgh, PA 15230

(412) 777-8000