

ACCEPTED

DEARCIDE 717 MICROBICIDE

NOTED

1975

DEARCIDE 717 MICROBICIDE
FEDERAL INSECTICIDE AND FUNGICIDE ACT
EPA ECONOMIC PESTICIDE REGISTRATION
NO. 4643-2

ACTIVE INGREDIENTS:
N-ETHYL-2,2,4,4-TETRAFLUORO-1,3-DIMETHYL-5-
BENZYL AMMONIUM CHLORIDE 11.25
BIS (TRI-n-BUTYLHIN) OXIDE 11.25
INERT INGREDIENTS 85.25

4643-2

DIRECTIONS FOR USE: NOTE: ADD DEARCIDE 717 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES, IN ORDER TO AVOID ANY POSSIBLE INCOMPATIBILITIES.

OPEN RECIRCULATING COOLING SYSTEMS: INITIAL DOSE: WHEN MICROBIOLOGICAL SLIMES ARE EVIDENT, APPLY 9.6 TO 18.6 FLUID OUNCES OF DEARCIDE 717 PER 1000 GALLONS (75 PPM TO 150 PPM) OF WATER IN THE SYSTEM. REPEAT UNTIL CONTROL IS ACHIEVED. BADLY COULDED SYSTEMS SHOULD BE CLEANED BEFORE TREATMENT IS BEGUN. SUBSEQUENT DOSE: WHEN MICROBIOLOGICAL CONTROL IS EVIDENT, APPLY 6.2 TO 12.5 FLUID OUNCES OF DEARCIDE 717 PER 1000 GALLONS (50 PPM TO 100 PPM) OF WATER IN THE SYSTEM ONCE PER WEEK, OR AS NEEDED TO MAINTAIN CONTROL.

FEEDING: DEARCIDE 717 SHOULD BE FED AT FULL STRENGTH IN THE COOLING TOWER BASIN AT A POINT OF MAXIMUM WATER CIRCULATION. LOWER BLEEDOFF VALVES SHOULD BE CLOSED TO PERMIT A RETENTION TIME OF 4 HOURS. SEE PRODUCT BULLETIN 7227 FOR ADDITIONAL INFORMATION.

PAPER MILLS: DOSAGE WILL VARY FROM 4.8 TO 9.6 FLUID OUNCES OF DEARCIDE 717 PER TON OF FINISHED PAPER DEPENDING ON TYPE OF STOCK, COMPLEXITY OF THE SYSTEM, QUALITY OF RAW WATER, AND TYPE AND DEGREE OF CONTAMINATION. FEEDING: DEARCIDE 717 MAY BE FEED CONTINUOUSLY FROM THE DRUM OR FED BY SUITABLE CHEMICAL PUMPS SUCH AS ADJUSTABLE PROPORTIONING TYPES; VARIABLE SPEED, POSITIVE DISPLACEMENT TYPE; OR BY THE RECIPROCATING TYPE. THIS PRODUCT SHOULD BE FED AS EARLY AS POSSIBLE IN THE PROCESS AT SUCH POINTS INCLUDING THE HYDROPULPER, MACHINE CHEST OR BROKE SYSTEM.

DANGER: KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

CORROSIVE. CAUSES EYE DAMAGE AND SKIN IRRITATION. MAY BE ABSORBED THROUGH THE SKIN. DO NOT GET IT NEAR OR ON YOUR FACE. WEAR GOGGLES OR FACE SHIELD AND RUBBER GLOVES WHEN HANDLING. NEVER GET IT NEAR YOUR MOUTH. IF SWALLOWED, DO NOT INDUCE VOMITING. PERSONNEL HANDLING DEARCIDE 717 SHOULD NOT BE USED FOR FOOD PROCESSING, DRINKING OR IN THE MANUFACTURE OF DRUGS.

THIS PRODUCT IS TOXIC TO FISH. TREATED EFFLUENT SHOULD NOT BE DISCHARGED DIRECTLY INTO LAKES, RIVERS, STREAMS, OR OTHER BODIES OF WATER. DO NOT CONTAMINATE SURFACE CLEANING OF EQUIPMENT, OR DISPOSAL OF WASTE. APPLY THIS FROM A POINT OF PRACTICALITY. DO NOT REUSE EMPTY DRUMS. CLEAN THOROUGHLY WITH WATER AND RETURN TO DRUM OR DESTROY. DO NOT BURN OR INCINERATE. KEEP THIS PRODUCT AWAY FROM HEAT OR OPEN FLAMES.

FIRST AID: IN CASE OF SKIN CONTACT, WASH WITH PLENTY OF SOAP AND WATER. IF IN EYES, FLUSH WITH WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION. REMOVE AND WASH CONTAMINATED CLOTHING SEPARATELY. IF SWALLOWED, DRINK PROMPTLY A LARGE AMOUNT OF WATER, MILK, WHITES, GELATIN SOLUTION OR IF THESE ARE NOT AVAILABLE, DRINK LARGE QUANTITIES OF WATER. AVOID ALCOHOL. CALL A PHYSICIAN IMMEDIATELY. **NOTE TO PHYSICIAN:** PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE USE OF A LAXATIVE. MEASURES AGAINST CONVULSIONS, RESPIRATORY DEPRESSION AND CONVULSION MAY BE NEEDED.

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EPA REG. NO. 4643-2
EPA EST. NO. 4643-11-1

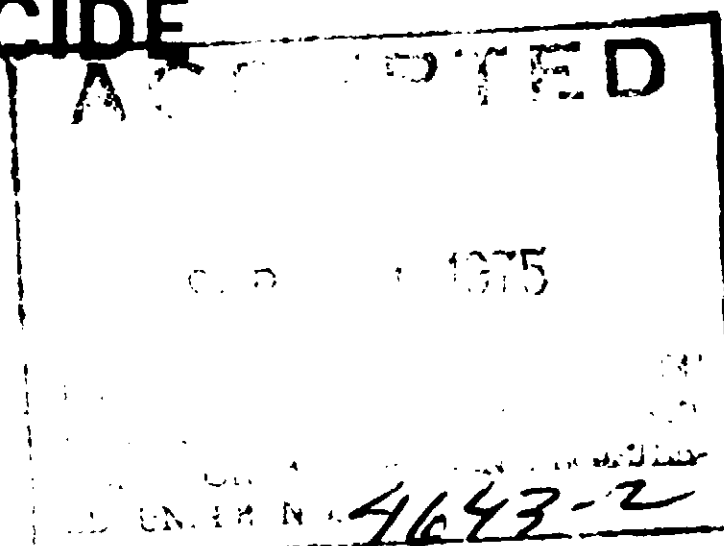
KEEP FROM FREEZING

DEARBORN 717 MICROBICIDE

CONTROLS BACTERIA AND ALGAE IN OPEN RECIRCULATING COOLING SYSTEMS;
CONTROLS BACTERIA AND FUNGAL SLIMES IN PULP AND PAPER MILLS.

INGREDIENTS:

DEARBORN 717 (60% C₁₄, 5% C₁₂, 30% C₁₆, 5% C₁₈) DIMETHYL
DEARBORN 717 AMMONIUM CHLORIDE 12.50
DEARBORN 717 (TRI-n-BUTYLPHOSPHINE) OXIDE 12.25
INGREDIENTS 85.25



DEARBORN 717 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES, IN ORDER TO AVOID ANY

INITIAL DOSE: WHEN MICROBIOLOGICAL SLIMES ARE EVIDENT, APPLY 9.3 TO 18.6 FLUID OUNCES OF DEARBORN
(50 PPM) OF WATER IN THE SYSTEM. REPEAT UNTIL CONTROL IS ACHIEVED. HEAVILY COATED SYSTEMS
GUN. **SUBSEQUENT DOSE:** WHEN MICROBIOLOGICAL CONTROL IS EVIDENT, APPLY 6.2 TO 12.4 FLUID
(50 PPM TO 100 PPM) OF WATER IN THE SYSTEM ONCE PER WEEK, OR AS NEEDED TO MAINTAIN CONTROL.
FULL STRENGTH IN THE COOLING TOWER BASIN AT A POINT OF MAXIMUM WATER CIRCULATION. TOWER
WITH A RETENTION TIME OF 4 HOURS. SEE PRODUCT BULLETIN 7227 FOR ADDITIONAL INFORMATION.
TO 9.6 FLUID OUNCES OF DEARBORN 717 PER TON OF FINISHED PAPER DEPENDING ON TYPE, TYPE
OF RAW WATER, AND TYPE AND DEGREE OF CONTAMINATION. **FEEDING:** DEARBORN 717 MAY BE FEED
SUITABLE CHEMICAL PUMPS SUCH AS ADJUSTABLE PROPORTIONING PUMPS; VARIABLE SPEED PUMPS; OR
PUMP TYPE. THIS PRODUCT SHOULD BE FED AS EARLY AS POSSIBLE IN THE MORNING AT START-UP OF THE
OR BROKE SYSTEM.

KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

IRRITATION. MAY BE ABSORBED THROUGH THE SKIN. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. WEAR
GLOVES WHEN HANDLING. HARMFUL OR FATAL IF SWALLOWED. AVOID CONTAMINATION OF FOOD, FEEDSTUFFS,
OR USED FOR FOOD PROCESSING, DRUGS, OR IN THE HOME. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING.

EFFLUENT SHOULD NOT BE DISCHARGED WHERE IT WILL BEAD IN LAKE, STREAM, OR RIVER. AVOID
CLEANING OF EQUIPMENT, OR DISPOSAL OF WASTES. APPLY THIS PRODUCT AS SPECIFIED. IF NECESSARY,
WITH WATER AND A PUMP TO OBTAIN SOLUTION, OR A STRONG SOLUTION FOR USE IN TANKS OR
TANKS.

WASH WITH PLENTY OF SOAP AND WATER. FOR EYES, FLUSH WITH WATER FOR 15 MINUTES. IF SWALLOWED,
CONTAMINATED CLOTHING SHOULD BE REMOVED. IF SWALLOWED, DRINK PROMPTLY A LARGE QUANTITY OF WATER.
IF NOT AVAILABLE, DRINK LARGE QUANTITIES OF WATER. AVOID ALCOHOL. CALL A PHYSICIAN IMMEDIATELY.
ALL DAMAGE MAY CONTRAINDICATE THE USE OF ASBESTIC LAMINATE. MEASURES SHOULD BE TAKEN TO PREVENT
IF BE NEEDED.

KEEP FROM FREEZING

DEARBORN CHEMICAL DIVISION

CORPORATION Lake Zurich, Ill. 60047

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9643-2

CONTROLS BACTERIA AND FUNGAL SPILTS IN PULP AND PAPER MILL;
CONTROLS BACTERIAL AND FUNGAL GROWTH IN DIRECT-CIRCULATING COOLING SYSTEMS

o-Alkyl (60% C₁₂, 5% C₁₄, 30% C₁₆, 5% C₁₈) POLYURETHANE

TIN (TRI-*n*-BUTYL TIN) OXIDE 105

INERT INGREDIENTS 95

SEP 19 1975

UNCLASSIFIED
FURNISHED TO THE PUBLIC
FOR RELEASE BY THE NATIONAL ARCHIVES
ED 4/43-2

PAPER MILLS: DOSAGE WILL VARY FROM 7.8 TO 9.6 FLUID OUNCES OF MICROBIOTREAT 321 PER TON OF FINISHED PAPER DEPENDING ON THE TYPE OF STOCK, COMPLEXITY OF THE SYSTEM, QUALITY OF RAW WATER, AND TYPE AND DEGREE OF CONTAMINATION. FEEDING MICROBIOTREAT 321 MAY BE DRIP FED CONTINUOUSLY FROM THE DRUM OR FED BY SUITABLE CHEMICAL PUMPS SUCH AS ADJUSTABLE PROPORTIONING TYPES; VARIABLE SPEED, POSITIVE DISPLACEMENT TYPE; OR BY THE RECIPROCATING TYPE. THIS PRODUCT SHOULD BE FED AS EARLY AS POSSIBLE IN THE SYSTEM, INCLUDING THE HYDROPULPER, MACHINE CHEST OR BROKE SYSTEM.

OPEN RECIRCULATING COOLING SYSTEMS: INITIAL DOSE: WHEN MICROBIOLOGICAL SLIMES ARE EVIDENT, APPLY 3.1 PER 1000 GALLONS (75 PPM TO 150 PPM) OF WATER IN THE SYSTEM. REPEAT UNTIL CONTROL IS ACHIEVED. TOWER BASIN SHOULD BE CLEANED BEFORE TREATMENT IS BEGUN. SUBSEQUENT DOSE: WHEN MICROBIOLOGICAL CONTROL IS ESTABLISHED, APPLY 3.1 PER 1000 GALLONS (50 PPM TO 100 PPM) OF WATER IN THE SYSTEM ONCE PER WEEK OR AS NEEDED TO MAINTAIN CONTROL. FEEDING: MICROBIOTREAT 3.1 SHOULD BE FED AT FULL STRENGTH IN THE COOLING TOWER BASIN AT A POINT OF MAXIMUM MIXING. TOWER BLEEDOFF VALVES SHOULD BE CLOSED TO PERMIT A RETENTION TIME OF 4 HOURS.

CORROSIVE. CAUSES EYE DAMAGE AND SEVERE IRRITATION. MAY BE ABSORBED THROUGH THE SKIN. DO NOT GET ON CLOTHING. WEAR GOGGLES OR FACE SHIELD AND RUBBER GLOVES WHEN HANDLING. WASH SKIN OR CLOTHING IMMEDIATELY IF CONTACT OCCURS. DO NOT RELY ON GLOVES RELATED WITH MICROBIOLOGICAL HANDLING NOT BE USED FOR TOOL OR OTHER PURPOSES. IS A FLAMMABLE AND TOXIC MATERIAL.

THIS PRODUCT IS MADE OF A HIGH QUALITY POLYESTER FIBER. IT IS NOT
 WATER, DO NOT ALLOW IT TO GET WET. IT IS NOT TO BE USED IN
 A HOT TUB OR A HOT BATHTUB. IT IS NOT TO BE USED IN A HOT TUB OR A
 HOT BATHTUB. IT IS NOT TO BE USED IN A HOT TUB OR A HOT BATHTUB.
 THIS PRODUCT MAY BE USED IN A HOT TUB OR A HOT BATHTUB.

FIRST AID: IN CASE OF FEVER, COUGH, OR OTHER RESPIRATORY SYMPTOMS, ADVISE THE PATIENT TO STOP WORK IMMEDIATELY AND TO CONSULT A PHYSICIAN. IF THE PATIENT IS NOT IMPROVED, ADVISE HIM TO GO TO A HOSPITAL OR CLINIC FOR FURTHER TREATMENT. IF THE PATIENT IS NOT IMPROVED, ADVISE HIM TO GO TO A HOSPITAL OR CLINIC FOR FURTHER TREATMENT.

DEAR

MICROBIOTREAT 321

CONTROLS BACTERIA AND FUNGAL SLIMES IN PULP AND PAPER MILL
CONTROLS BACTERIAL GROWTH IN OPEN RECIRCULATING COOLING SYSTEMS

ACTIVE INGREDIENTS:

n-ALKYL (60% C₁₂, 5% C₁₄, 30% C₁₆, 5% C₁₈) DIMETHYL
BENZYL AMMONIUM CHLORIDE 1.0
BIS (TRI-n-BUTYLPHENYL) OXIDE 0.5
INERT INGREDIENTS 98.5

ACCEPTED

SEP 19 1975

EXEMPT FROM FIFTEEN MINUTE
FUMIGATION AND RESIDUE ACT
FOR EXEMPT FROM RESIDUE
ED UNDER 4643-2

MICROBIOTREAT 321 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES, ESPECIALLY

FROM 4.8 TO 9.6 FLUID OUNCES OF MICROBIOTREAT 321 PER TON OF FINISHED PAPER DEPENDING ON THE TYPE OF
QUALITY OF RAW WATER, AND TYPE AND DEGREE OF CONTAMINATION. FEEDING MICROBIOTREAT 321 MAY BE
BY OR FED BY SUITABLE CHEMICAL PUMPS SUCH AS ADJUSTABLE PROPORTIONING TYPES; VARIABLE SPEED, POST-
RECIPROCATING TYPE. THIS PRODUCT SHOULD BE FED AS EARLY AS POSSIBLE IN THE SYSTEM AT SUCH POINTS
THE CHEST OR BROKE SYSTEM.

INITIAL DOSE: WHEN MICROBIOLOGICAL SLIMES ARE EVIDENT, APPLY 9.6 TO 18.0 FLUID OUNCES OF MICRO-
PPM TO 150 PPM) OF WATER IN THE SYSTEM. REPEAT UNTIL CONTROL IS ACHIEVED. RAPIDLY FILLED SYSTEMS
IS BEGUN. SUBSEQUENT DOSE: WHEN MICROBIOLOGICAL CONTROL IS EVIDENT, APPLY 4.8 TO 9.6 FLUID OUNCES
100 GALLONS (50 PPM TO 100 PPM) OF WATER IN THE SYSTEM ONCE PER WEEK OR AS NEEDED TO MAINTAIN CON-
L SHOULD BE FED AT FULL STRENGTH IN THE COOLING TOWER BASIN AT A POINT OF MAXIMUM RESIDENCE TIME IN
CLOSED TO PERMIT A RETENTION TIME OF 4 HOURS.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

SKIN IRRITATION. MAY BE ABSORBED THROUGH THE SKIN. DO NOT GET IN EYES, EARS, OR ON CLOTHING. WEAR
GLOVES WHEN HANDLING. HARMFUL IF SWALLOWED. ALWAYS WASH HANDS AFTER USE. THIS PRODUCT
SHOULD NOT BE USED FOR FOOD PREPARATION, FEEDING OR IN THE HANDLING OF FOOD.

TREATED EFFLUENT SHOULD BE RELEASED TO THE WATER BODY IT WILL DECONTAMINATE. IT MAY BE
BY CLEANING OF EQUIPMENT, OR WITH A SOLUTION OF WATER. APPLY THIS PRODUCT TO EQUIPMENT
THOROUGHLY WITH WATER OR BEANS. FOR CONTAMINATED WATER, OR FOR EQUIPMENT, IT MAY BE USED
ON FLAMES.

IT, WASH WITH PLenty OF WATER. IF SWALLOWED, DRINK WITH WATER AND DO NOT INDUCE VOMITING.
IF CONTAMINATED CLOTHING IS WEARED, REMOVE IT AND WASH IT. IF THE PRODUCT IS ON THE SKIN,
USE ARE NOT AVAILABLE, USE PLenty OF WATER. ALWAYS WASH HANDS AFTER USE. IF EYES ARE
MUCOUS DAMAGE MAY OCCUR. IF IN EYES, WASH WITH WATER. IF IN EARS, DO NOT USE. IF IN
TION MAY BE NEEDED.

DEARBORN CHEMICAL DIVISION

CORPORATION Lake Zurich, Ill. 60047

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3-11-1
FED FROM 100 GALLONS