## PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

# DANGER KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin burns, Harmful if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals.

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

Avoid breathing vapor. Do not swallow.

Wear goggles, protective clothing, and butyl or nitrile gloves.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

## **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge efficient containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Oo not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidence contact your State Water Board or Regional Office of the EPA.

## STORAGE AND HANDLING

850 Stimicide and Water Treatment Microbiocide solutions are incompatible with many commonly used materials of construction such as steet, galvanized fron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyathylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -6°F (-21°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. if heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature

A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON® is suitable for gaskets and packing.

## LIMITED WARRANTY AND DISCLAIMER

Seller warrants that the product conforms to its chemical description as contained on this label and is reasonably fit for the purposes stated on this label when used in accordance with directions under normal conditions of use. THE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES WITH RESPECT TO THE PRODUCT AND ARE MADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.

BEFORE HANDLING OR USING, READ AND UNDERSTAND CURRENT MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT.

## STORAGE AND DISPOSAL

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. 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 your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. CONTAINER DISPOSAL: Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or

reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be incinerated. Do not cut or weld on or near metal containers.

<del>ACCEPTE</del>D



OCT 1 2 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 464-704

This label is FOR INFORMATIONAL PURPOSES ONLY and shall not be distributed to anyone unless duly authorized by Regulatory Affairs.



A HIGHLY EFFECTIVE MICROBIOCIDE FOR USE IN CONTROLLING BACTERIA INCLUDING SLIME FORMING BACTERIA, SULFATE-REDUCING BACTERIA, FUNCI, YEAST AND ALGAE IN BEET SUGAR MILLS AND BEET SUGAR MILL PROCESS WATER SYSTEMS, PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS, PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD, WATER BASED COATINGS FOR PAPER AND PAPERBOARD, AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, RECIRCULATING COOLING AND PROCESS WATER SYSTEMS INCLUDING THOSE THAT CONTAIN REVERSE OSMOSIS MEMBRANES AND SERVICE WATER AND AUXILIARY SYSTEMS INCLUDING FIRE WATER SYSTEMS AND SPRAY PAINT BOOTHS, HEAT TRANSFER SYSTEMS, WASTEWATER SYSTEMS INCLUDING WASTEWATER SLUDGE AND HOLDING TANKS AND FUNCTIONAL FLUIDS AND LUBRICANTS, AND AQUEOUS METAL WORKING FLUIDS AND FOR USE BY MANUFACTURERS AS A PRESERVATIVE IN INDUSTRIAL, INSTITUTIONAL, AND CONSUMER PROCESSES AND PRODUCTS AND FOR USE IN PRESERVING AQUEOUS BASED SOLUTIONS, SLURRIES, AND EMULSIONS,

> Active Ingredient: Glutaraldehyde ...... 50.0% Inert Ingredients: 50.0%

# KEEP OUT OF REACH OF CHILDREN DANGER

- Call a poison control center or a doctor immediately for treatment advice
- DO NOT INDUCE VOMITING.
- Do not give anything to drink.

#### If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- After at least 15 minutes of rinsing or after it is judged that nearly all of the contamination has been removed, contact an Ophthalmologist before attempting to remove the contact lens(es).

FIRST AID

Call a poison control center or a doctor immediately for treatment advice.

#### If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or a doctor for treatment advice.

#### If inhaled:

- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or a doctor for further treatment advice.

NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the

Have the MSDS and, if available, the product container or label with you when calling a poison control center or a doctor, or going for treatment.

#### SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.



THE DOW CHEMICAL COMPANY Midland, Michigan 48674 U.S.A. 1-800-258-CHEM

\*Trademark of THE DOW CHEMICAL COMPANY

EPA Reg. No. 464-EPA Est. No. 10352-WV-2 £ 72117 (F0701) Made In USA PE0701

let Contents; 5 or 55 gallons	CONTAINER SIZE	CONTAINER SIZE	SHIPPING	CORROSIVE LIQUID, ACIDIC, ORGANIC,N.O.S.	
	5 GALLONS	55 GALLONS	NAME	(CONTAINS GLUTARALDEHYDE)	
	46 POUNDS NET WEIGHT	500 POUNDS NET WEIGHT	HAZARD CLASS 8	ID NUMBER UN 3265	PG II

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect 989-636-4400.



### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### BEET SUGAR MILLS AND BEET SUGAR MILL PROCESS WATER SYSTEMS

PIROR<sup>TM</sup> 850 Slimicide and Water Treatment Microbiocide should be added to the system at a point of uniform mixing such as the diffuser, transport water pump, weir box, or diffuser feed water pump. Additions may be made intermittently (SLUG DOSE) or continuously.

### INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably contaminated, add 5.5 to 13.6 fluid ounces (200 to 500 ppm product) of PIROR™ 850 Simicide and Water Treatment Microbiocide per lot or 200 to 500 mt. of PIROR™ 850 Slimicide and Water Treatment Microbiocide per metric for of sliced beets as a stug dose. Repeat until central is achieved:

Subsequent Dose: When microbial control is evident, add 0.8 to 8.2 fluid ounces (30 to 300 ppm) of PIROR1M 850 Simicide and Water Treatment Microbiocide per ton or 30 to 300 mL of PIROR1M 850 Simicide and Water Treatment Microbiocide per metric ton of siced beets in the system as a slug dose as necessary to maintain control. The total should not exceed 106 gallons per 1000 tons of beets sliced per day.

#### CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably contaminated, add 5.5 to 13.6 fluid ownes/minute (200 to 500 ppm product) of PIRORIM 850 Stimbide and Water Treatment Microbiocold por ten or 200 to 500 ml./minute of PIRORIM 850 Stimbide and Water Treatment Microbiocolde per metric ton of beets sliced per minute in the system via automatic pump of suitable construction.

Subsequent Dose: When microbial control is evident, add 0.8 to 8.2 fluid ounces/minute (30 to 300 ppm) of PIROR<sup>TM</sup> 850 Slimicide and Water Treatment Microbiocide per ion or 30 to 300 mL/minute of PIROR<sup>TM</sup> 850 Slimicide and Water Treatment Microbiocide per metric ton of beets sliced per minute in the system, or as necessary to maintain control. The total should not exceed 106 gallons per 1000 tons of beets sliced per (ay.

## PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

PIROR<sup>TM</sup> 650 Slimicide and Water Treatment Microbiocide should be added to the paper making system at a point of uniform mixing such as the beaters, broke chest pump, save all tank, or white-water tank.

Initial Dose: When the system is noticeably contaminated, add 0.5 to 3.0 tips of PIROR<sup>1M</sup> B50 Stimicide and Water Treatment Microbiocide per ton of pulp or paper (dry basis) as a stug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial treatment.

Subsequent Dose; When microbial control is evident, add 0.3 to 2.0 tos of PHORTM 850 Stinicide and Water Treatment Microbiocide per fon of pulp or paper (dry basis) as a stug dose as necessary to maintain control

#### PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD

Use from 0.1 to 0.6 lbs. of PIROHIM 850 Shimodo and Water Treatment Microbiocide per 1.000 lbs. dry powder to produce a concentration of 100 to 000 ppm as product (based on sturry solids) in the mixed shirty.

#### WATER BASED COATINGS FOR PAPER AND PAPERBOARD

NOTE: For use in non-food contact contings only.

Use from 0.1 to 0.6 lbs. of PHOR1M 850 Stimulide and Water Treatment Microbiocide per 1,000 lbs. dry powder to produce a concentration of 100 to 600 ppm as product (based on sturry solids) in the mixed sturry.

## AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/ RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

This product may be used only in inclustrial air washers and air washer systems which have mist-eliminating components.

PIROTHM 950 Slimicide and Water Trustment Microticocute should be actived at the application rates described below, to a water treatment system at a convenient point of uniform mixing such as the basis area. Adultion may be made eleminaterity (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with PIRORHM 950 Stimicide and Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours.

PIROR<sup>TM</sup> 650 Slimicide and Water Treatment Micro/xxxxide can be used in industrial process water systems that contain uttrafiltration units and non-medical reverse comosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.



#### PAGE TWO DIRECTIONS FOR USE CONTINUED FROM PAGE ONE

## INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably fouled apply 11.5 to 23.0 fluid ounces (100 to 200 ppm product) of PIRORTM 950 Stimicide and Water Treatment Microbiocide per 1,000 gallone of water in the system or 100 to 2700 mL of PIRORTM 950 Stimicide and Water Treatment Microbiocide per 1,000 liters of water in the system. Repeat until control achieved.

Subsequent Dose: When microbial control is evident, add 4.6 to 11.5 fluid ounces (40 to 100 ppm) of PIROR<sup>TM</sup> 850 Slimicide and Water Treatment Microbiocide per 1,000 gallons of water in the system weekly or 40 to 100 mL of PIROR<sup>TM</sup> 850 Slimicide and Water Treatment Microbiocide per 1,000 liters of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

#### CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled apply 11.5 to 23.0 fluid ounces (100 to 200 ppm product) of PIROR TM 850 Slimicide and Water Treatment Microbiocide per 1,000 gallons of water in the system or 100 to 200 mL of PIROR. TM 850 Slimicide and Water Treatment Microbiocide per 1,000 liters of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous food of 2.3 to 11.5 fluid ounces (20 to 100 ppm) of PIROR TM 550 Silmicide and Water Treatment Microbiocide per 1,000 gallons of water in the system per day or 20 to 100 mL of PIROR TM 850 Silmicide and Water Treatment Microbiocide per 1,000 liters of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun

## VIOLE WATER AND AUXILIARY SYSTEMS

(Fire water systems and Spray paint booths)

PIROR<sup>TM</sup> 850 Slimicide and Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

#### HEAT TRANSFER SYSTEMS

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

PIFICE <sup>1M</sup> 850 Slimicide and Water Treatment Microbiocide should be used at the seme application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

### INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

PIROR TM 850 Slimicide and Water Treatment Microbiocide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 0.5 to 2.3 gallons (450 to 2,250 ppm) of PIROR TM 850 Slimicide and Water Treatment Microbiocide per 1,000 gallons of wastewater or sludge or 450 mL to 2,250 mL of PIROR TM 850 Slimicide and Water Treatment Microbiocide per 1,000 liters of wastewater or sludge.

### **AQUEOUS METALWORKING FLUIDS**

<sup>1</sup>TM 850 Slimicide and Water Treatment Microbiocide should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be made Intermittently (SLUG DOSE) at intervals of one week or less.

Initial Dose: When the system is noticeably fouled apply 1.8 to 5.4 gallons of PIROR TM 850 Slimicide and Water Treatment Microbiocide per 10,000 gallons of metalworking fluid to the system. Repeat until control is decli

Subsequent Dose: When microbial control is evident, add 0.7 to 3.6 gallons of PIROR TM 850 Slimicide and Water Treatment Microbiocide per 10,000 gallons of metalworking fluid to the system weekly, or as needed to maintain control. Badly fouled systems should be cleaned before treatment is begun.

## WATER BASED CONVEYOR LUBRICANTS

(Brewery, Juice, Dairy, Beverage, and Food Processing Systems)

Avoid contamination of food in application of product

Thoroughly clean all tracks and convoyors to remove gross soil. Hinse well. Use an automatic feed system as recommended by our Dow representative to provide 1.3 to 7.7 fluid ounces (50 to 300 ppm active) of PIRORTM 850 Slimicide and Water Treatment Microbiocide per 100 gallons of diluted Jubricant

## **GENERAL PRESERVATIVE USE**



PROTEMS0. Stimuted and Water Treatment Microbiosade is recommended for use in appeals or water containing products and systems, including industriat, institutional and consumer in-can processes and products, to control the growth of bacteria and fungi. For effective preservation, add PIROR — TM 850 Stimuted and Water Treatment Microbiocide to the product formulation at a rate of 0.02% to 0.02% (200 to 2,000 ppm) based on the water content of the product (0.2 to 2.0 bs PIROR — TM 850 Stimuted and Water Treatment Microbiocide /1,000 to water content). Mix unifornity.

### PRESERVATIVE FOR CONCENTRATES

For use in concentrates where effective preservation is needed after dilution, add PIROR. IM 850 Slimicide and Water Treatment Microbiocide to the product formulation at a rate such that the diluted end-use product will contain 0.02% to 0.20% PIROR. IM 850 Slimicide and Water Treatment Microbiocide.

At no time during the preservation process should the level of PIROR TM 850 Slimicide and Water Treatment Microbiocide exceed 2.0%.

### REVERSE OSMOSIS MEMBRANE

For effective preservation of reverse esmosts elements (where approved for compatibility by membrane manufacturer), immerse elements in a tank containing 0.2% to 2.0% PIROR<sup>1M</sup> 850 Slimicide and Water Treatment Microbiocide.

PIRORTM 850 Stimicide and Water Treatment Microbiocide can also be added to in-line recirculating systems for preservation of installed out-of-service reverse osmosis equipment (where approved for compatibility by membrane manufacturer). Add 0.2% to 2.0% PIRORTM 850 Stimicide and Water Treatment Microbiocide to the tank in the circulating system. Maintain PIRORTM 850 Stimicide and Water Treatment Microbiocide concentration by periodic addition to counteract arry system leakage.

### **CONCRETE ADMIXTURES**

For effective preservation of concrete admixtures, add PIRORTM 850 Slimicide and Water Treatment Microbiocide to the product formulation at a rate of 2,000 to 8,000 ppm based on the weight of the admixture (2.0 to 8.0 lbs PIRORTM 850 Slimicide and Water Treatment Microbiocide/ 1,000 lbs. concrete admixture), Mix uniformly.

ACCEPTED

OCT 1 2 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 44

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