

PM-31

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MAY 8 1995

Union Carbide Corporation
P. O. Box 670
Bound Brook, NJ 08805

Attention: Joan E. Young

Subject: PIROR 850 Slimicide and Water Treatment Microbiocide
EPA Registration Number 10352-37
Your Submission Dated February 25, 1994
EPA Received Date March 25, 1994

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to amend the Hazard Warnings Statement, is acceptable provided that you make the following labeling revisions:

The heading "Hazards to Humans and Domestic Animals" is acceptable.

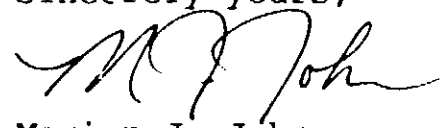
Revise the statement "May cause allergic skin reaction" to read "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

The addition of the statement "Cause asthmatic signs and symptoms in hyper-reactive individuals" to the product labeling is acceptable.

A stamped copy of the labeling is enclosed for your records. Submit one (1) copy of the final printed label prior to release of the product for shipment.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-305-6966.

Sincerely yours,



Marion J. Johnson
Product Manager (31)
Antimicrobial Program Branch
Registration Division (7505C)

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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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. May cause allergic skin reaction.
 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 rubber 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 effluent 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. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND HANDLING

PIROR® 850 Semicide and Water Treatment Microbiocide solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, 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 is about 80°F (26.7°C).

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

The manufacturer warrants (a) that this product conforms to the chemical description on the label, (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions, and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

BEFORE HANDLING OR USING, READ AND UNDERSTAND CURRENT UNION CARBIDE 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. Do not use wastes as toxic. Proper disposal of excess pesticide, spray mixture or residue is a violation of Federal law. If these wastes can not 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 procedure 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.

This label is UCC BUSINESS CONFIDENTIAL and shall not be disclosed to anyone unless duly authorized by the Manager, Regulatory Affairs



Active Ingredient: Glutaraldehyde 50.0%
 Inert Ingredients: 50.0%
 100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.
IF ON SKIN: Immediately wash with plenty of soap and water. Get medical attention.
IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, get medical attention.
IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical attention immediately.
NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

UNION CARBIDE CORPORATION

39 Old Ridgebury Road • Danbury, CT 06817-0001 EPA Est. No. 0000000000
 EPA Reg No 10352-37 UCC-L72
 PIROR is a registered trademark of Union Carbide
 Net Contents 5 or 55 gallons

70117 PRODUCT CODE	CONTAINER SIZE 5 GALLONS	CONTAINER SIZE 55 GALLONS	SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (GLUTARALDEHYDE SOLUTION)	
	46 POUNDS NET WEIGHT	500 POUNDS NET WEIGHT	HAZARD CLASS 8	ID NUMBER UN 1701	PG II

EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357) OUTSIDE USA 01-304-744-348

MAY 8 1995

WENTS
ESTIC ANIMALS
CHILDREN
 inhaled. May be fatal if swallowed.

IDS
 streams, ponds, estuaries, oceans or
 Elimination System (NPDES) permit
 ge effluent containing this product to
 r guidance contact your State Water

NG
 many commonly used materials
 an be stored and handled in
 ment. This product freezes at
 and insulation may be required
 e times (up to about 1 month).
 e temperature

AIMER
 on the label (b) that this product is
 lance with such directions and (c) that
 experts' evaluation of reasonable tests
 if varies or in all states or under all
 S IT AUTHORIZES ANY AGENT OR
 ED AND IT EXPRESSLY EXCLUDES
 S FOR PARTICULAR PURPOSE. This
 oss or damage which results from the
 or cautions

**VE LIABILITY FOR ANY AND ALL
 R HANDLING OF THIS PRODUCT,
 STRICT LIABILITY IN TORT OR
 CEMENT OF, OR THE REPAYMENT
 WHICH DAMAGES ARE CLAIMED
 . INDIRECT OR CONSEQUENTIAL**

**ND UNDERSTAND
 . SAFETY DATA
 CT.**

SAL
 Open dumping is prohibited. Consult
 tion of Federal law. If these wastes
 or your Environmental Control Agency
 (valent). Then offer for recycling or
 ved by state and local authorities.
 urning. If burned, stay out of smoke
 es

This label is UCC BUSINESS CONFIDENTIAL and shall not be distributed to anyone unless duly authorized by the Manager, Regulatory Affairs.



Active Ingredient: Glutaraldehyde 50.0%
 Inert Ingredients: 50.0%
 100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention

IF ON SKIN: Immediately wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.

NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

UNION CARBIDE CORPORATION

39 Old Ridgebury Road • Danbury, CT 06817-0001
 EPA Reg. No. 10352-37
 PIROR is a registered trademark of Union Carbide
 Net Contents, 5 or 55 gallons

EPA Est No 10352-WV-2
 UCC-L72117 (C 03/94)
 Made In USA
 PE0394

PRODUCT CODE	CONTAINER SIZE	CONTAINER SIZE	SHIPPING NAME	CORROSIVE LIQUID N.O.S. (GLUTARALDEHYDE SOLUTION)	
	72147	5 GALLONS	55 GALLONS		
	46 POUNDS NET WEIGHT	500 POUNDS NET WEIGHT	HAZARD CLASS 8	ID NUMBER UN1760	PG II

EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)
OUTSIDE USA 01-304-744-3487

MAY 8 1995

10352-37

DIRECTIONS FOR USE

GENERAL CLASSIFICATION

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

PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

PIROR® 850 Semicide and Water Treatment Microbiocide should be added to the paper making system at a uniform mixing such as the beater, broke chest pump, save-all tank, or white-water tank.
Initial Dose: When the system is noticeably contaminated, add 0.5 to 3.0 lbs of PIROR® 850 Semicide and Water Treatment Microbiocide per ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Systems should be bled out prior to initial treatment.
Subsequent Dose: When microbial control is evident, add 0.3 to 2.0 lbs of PIROR® 850 Semicide and Water Treatment Microbiocide per ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPER

Add sufficient quantities of PIROR® 850 Semicide and Water Treatment Microbiocide to produce a concentration of 600 ppm based on slurry solids.

WATER BASED COATINGS

NOTE: For use in non food contact coatings only.

Add sufficient quantities of PIROR® 850 Semicide to produce a concentration of 100 to 200 ppm based on slurry solids.

BET SUGAR MILLS AND BET SUGAR MILL PROCESS WATER SYSTEMS

PIROR® 850 Semicide 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) of PIROR® 850 Semicide and Water Treatment Microbiocide per ton or 200 to 500 mL of PIROR® 850 Semicide and Water Treatment Microbiocide per metric ton of sliced beets as a slug dose. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.8 to 8.2 fluid ounces (30 to 300 ppm) of PIROR® 850 Semicide and Water Treatment Microbiocide per ton or 30 to 300 mL of PIROR® 850 Semicide and Water Treatment Microbiocide per metric ton of sliced beets in the system as a slug dose as necessary to maintain control. Do 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 ounces/minute (200 to 500 ppm) of PIROR® 850 Semicide and Water Treatment Microbiocide per ton or 200 to 500 mL/minute of PIROR® 850 Semicide and Water Treatment Microbiocide per metric ton of beets sliced per minute in the system via automatic pump or construction.

Subsequent Dose: When microbial control is evident, add 0.8 to 8.2 fluid ounces/minute (30 to 300 ppm) of PIROR® 850 Semicide and Water Treatment Microbiocide per ton or 30 to 300 mL/minute of PIROR® 850 Semicide and Water Treatment Microbiocide per metric ton of beets sliced per minute in the system, or as necessary to maintain control. Do not exceed 106 gallons per 1000 tons of beets sliced per day.

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

This product may be used only in industrial air washers and air washer systems which have mist eliminators.

PIROR® 850 Semicide and Water Treatment Microbiocide should be added at the application rates described in the water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be intermittent (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with PIROR® 850 Semicide and Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours.

PIROR® 850 Semicide and Water Treatment Microbiocide can be used in industrial process water systems. Reasonably clean and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably fouled, apply 11.5 to 69 fluid ounces (100 to 600 ppm product) of PIROR® 850 Semicide and Water Treatment Microbiocide per 1000 gallons of water in the system or 100 to 600 mL of PIROR® 850 Semicide and Water Treatment Microbiocide per 1000 liters of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 4.6 to 69.0 fluid ounces (40 to 600 ppm) of PIROR® 850 Semicide and Water Treatment Microbiocide per 1000 gallons of water in the system weekly or 40 to 600 mL of PIROR® 850 Semicide and Water Treatment Microbiocide per 1000 liters of water in the system weekly, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUED ON PAGE TWO

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled apply 11.5 to 69.0 fluid ounces (100 to 600 ppm product) of PIROR® 850 Slicicide and Water Treatment Microbiocide per 1000 gallons of water in the system or 100 to 600 mL of PIROR® 850 Slicicide and Water Treatment Microbiocide per 1000 liters of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 4.6 to 23.0 fluid ounces (40 to 200 ppm) of PIROR® 850 Slicicide and Water Treatment Microbiocide per 1000 gallons of water in the system per day or 40 to 200 mL of PIROR® 850 Slicicide and Water Treatment Microbiocide per 1000 liters of water in the system per day.
Badly fouled systems must be cleaned before treatment is begun.

SERVICE WATER AND AUXILIARY SYSTEMS

PIROR® 850 Slicicide and Water Treatment Microbiocide should be used in 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)

PIROR® 850 Slicicide 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 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® 850 Slicicide 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 2250 ppm) of PIROR® 850 Slicicide and Water Treatment Microbiocide per 1000 gallons of wastewater or sludge or 450 mL to 2250 mL of PIROR® 850 Slicicide and Water Treatment Microbiocide per 1000 liters of wastewater or sludge.

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