US ENVIRONMENTAL PROTECTION AGENCY	65402-1	ADD A E 4000				
OFFICE OF PESTICIDES PROGRAMS	TERM OF ISSUANCE	APR 05 1993				
REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	I EHM OF ISSUANCE					
NOTICE OF PESTICIDE: REGISTRATION	NAME OF PESTICIDE PRODUCT					
HEREUSTAN TON	VigorOx Liquid Sanitizer					
(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	Vigorox inquiu saintizei					
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)						
-	٦					
FMC Corporation	·					
Peroxygen Chemicals Division						
1735 Market Street Philadelphia, PA 19103						
Pullabelpina, PA 19103						
<u>_</u>	٦					
NGTE: Changes in labeling formula differing in substance fr submitted to and accepted by the Registration Division prior product always refer to the above U.S. EPA registration number	to use of the label in commerce	with this registration must be . In any correspondence on this				
On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.						
A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.						
Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant aright to exclusive use of the name or to its use if it has been covered						
This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:						
1. Submat/cite all data required your product under FIFRA section 3(c)(5 registrants of similar products to submaresponses required for reregistration of the submaresponses required for receiving the submaresponses required for receiv) when the Agency requit such data; and sub	quires all mit acceptable				
Make the labeling changes listed below before you release the product for shipment:						
a. Add the phrase "EPA Registration No. 65402-1".						
b. It is preferred that the following statement be removed from the label						
"Consideration should be given to careful endoscopy as stomach or esophageal burns, perforations, or strictures may occur"						
It is recommended that you consult with your medical staff regarding this statement and its implications. It would be more prudent for the physican to make this type of determination and/or consideration whenever the conditions warrant.						
ATTACHILL T IS APPLICABLE						
SIGNATURE OF APPROVING OFFICIAL		CAST				
1		,				
EPA Form \$570-6 (Rev. 5-76) PREVIOUSEE TION	. ** E = E +					

c. Delete the statements:

"Observation may be warranted. Treatment is controlled removal of exposure followed by symptomatic and supportive care"

d. Delete the statement:

No potable water rinse is required if used at or below 0.4% Vigorox.

NOTE: Potable water rinses are not permitted for food contact surfaces as per FDA directive.

e. Revised the statement: "... effective in eliminating a wide variety of problematic microorganisms..." to read

"... effective against a variety of microorganisms..."

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,

Product Manager (31) Antimicrobial Program Branch Registration Division (H7505C)

Enclosures

CONCURRENCES								
SYMBOL								
SURNAME								
DATE			*************	**************************************	••••••••••••••••••••••••••••••••••••••		••••••	
EPA "ont	1320-1A (1/90)			Printed on Recycles	Paper		OFFICI	AL FILE COPY

VigorOx™ Liquid Sanitizer

EPA Reg. No. 65402-1 EPA Est. No. 00279-NY-003

For Control of Microbes in Dairies, Wineries, Breweries and Beverage Plants

For Industrial Use Only

Active Ingredients: Peroxyacetic Acid 5.1%

Hydrogen Peroxide 21.7%

Inert Ingredients: 73.2%

KEEP OUT OF REACH OF CHILDREN

DANGER

See side panel for additional precautionary statements

NET CONTENTS gallons (lbs.)

Peroxygen Chemicals Division 1735 Market Street
Philadelphia, Pennsylvania 19103

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PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Anim

DANGER

Corroshe, causes eye and skin damage. Harmful or fatal if swellowed skin, or on clothing. Wear goggles or face shield and rubber gloves of thoroughly with soap and water after handling. Do not breeth vapor or an enclosed area without proper respiratory protection.

Physical or Chemical Hazards

Strong oxidizing agent. Mit only with weter, VigorOx^{NL} is not combust temperatures exceeding 156 F, decomposition occurs releasing oxygreleased could initiate or promote combustion of other materials.

Statement of Practical Treatment

If swallowed: Rinse mouth with water, Dilute by giving 1 or 2 pleases vomiting. See a physician,

If Inhaled: Remove to fresh air. If breething discomfort occurs, call a has stopped, apply artificial respiration and see a physician.

If in eyes: Immediately flush with water for at least 15 minutes, litting seyelids intermittently. See a physicien.

If on skint immediately flush with plenty of weter white removing contr and/or shoes. Wash skin thoroughly with scep and water. See a physicontaminated shoes and clothing before reuse.

Note to Physician: Consideration should be given to careful endoscop esophageal burne, perforatione, or strictures may occur. Probable muc contraindicate the use of gastric levege. Observation may be warrants controlled removal of exposure followed by symptomatic and supports:

EMERGENCY TELEPHONE NUMBERS (MEDICAL: COLLECT 303-595-9048 TRANSPORTATION: 800-424-9300 OTHER: COLLECT 716-879-0400

Label effective date: Jenuary 1983



Storage and Disposal

Storage

NEVER RETURN VigorOx 70 THE ORIGINAL CONTAINER AFTER IT HAS BEEN REMOVED, Avoid all contaminants, especially dirt, caustic, reducing agents, and metals. Contamination and impurities will reduce shelf life and can induce decomposition. In case of a decomposition, isolate container, double container with cool water and dilute VigorOxTM with large volumes of water.

Avoid damage to containers. Keep container closed at all times when not in use. Keep container out of direct sunlight. To maintain product quality, store at or below 88 F. Do not store on wooden pellets.

Procedure for Leak or Spill

Stop leek if this can be done without risk. Shut off ignition sources; no flames, amolting, flames, or spark producing tools. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Undikited material should not enter confined spaces.

Disposal

Pesticide Disposal

If meterial has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by discharge into a suitable treatment system in accordance with all local, state, and Federal environmental lews, rules, regulations, standards, and other requirements. Because acceptable methods of disposal may very by location and because regulatory requirements may change, the appropriate regulatory agencies should be contacted prior to disposal.

VigorOxTM Liquid Sanitizer which is to be discarded, should be disposed of as hazardous weets after contacting the appropriate local, state, or Federal agency to determine proper procedures.

Container Disposal

Drums are not refumable. Triple rinse drums with water. Dispose of drums in accordance with local, state, and Federal regulation». DO NOT REUSE DRUMS

Directions for Use

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

For use in circulation cleaning and senitizing of equipment such as tanks, pipelines, evaporators, filters, pasteurizers, and assetic equipment in daines, wineries, breweries, and beverage plants.

Sanitizing Food Contact Surfaces.

Clean equipment immediately after use:

- 1. Ramove gross perboulate matter with a warm water flush.
- 2. W'a h equipment with detergent or cleaning solution.
- 3. Rinse equipment with potable water.
- 4 Prepere VigorOx™ solution as follows: a. Add 1.6 to 1.9 our best VigorOx™Liquid Sanktizer to 5 gallons potable water. This will provide 128 to 152 ppm peroxyscetic acid and 550 to u44 ppm hydrogen peroxide.
- Fill closed systems with diluted sanitizer solution at a temperature of 5 C (45 F) to 40 C (104 F) and a contact time of one (1) minute.
- Allow surfaces to drain thoroughly before resurring operation

No potable water rinse is required if used at or below 0.4% VigorOx^{NI}.

Always prepare a new sanitizing solution daily to ensure effectiveness. Do not reuse sanitizing solution. Dispose of any unused sanitizer in accordance with the disposal directions on this lebel.

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VigorOx[™] is an equilibrium solution of two active ingredients - peroxyacetic acid (CH₃COOOH) and hydrogen peroxide (H₂O₂).

VigorOx[™] has been formulated for use in the circulation cleaning and sanitizing of equipment such as tanks, pipelines, evaporators, fillers, pasteurizers, and aseptic equipment in dairies, winerics, breweries and beverage plants. When properly diluted, VigorOx[™] meets the specifications for an indirect food additive in accordance with 21 CFR 178.1010 (b) (30) and (c) (25). VigorOx[™] is effective in eliminating a wide variety of problematic microorganisms.

BENEFITS

- Excellent non-foaming action at low concentrations
- Broad spectrum sanitizing action
- · Effective at low temperatures
- Non-corrosive to most food and beverage systems
- Non-absorptive in materials of plant construction
- Upon use, active ingredients breakdown into water, oxygen and acetic acid

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VigorOx[™] Properties

Chemical	(% by weight)	Physical	
Peroxyacetic acid	5.1%	Melting/Freezing point	-25.9 ^o C
Hydrogen peroxide	21.7%	Vapor pressure	22mm Hg
Inert ingredients	73.2%	Odor >	strong, pungent
Active oxygen content	11.3%	Appearance	colorless liquid
		pH (1% solution)	2.5
		Solubility in water (20°C)	100%
		Density (lbs/gai)	9.17

DIRECTIONS FOR USE

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

For use in the circulation cleaning and sanitizing of equipment such as tanks, pipelines, evaporators, fillers, pasteurizers, and aseptic equipment in dairies, wineries, breweries, and beverage plants.

Sanitizing Food Contact Surfaces

Clean equipment immediately after use

- 1. Remove gross particulate matter with a warm water flush.
- 2. Wash equipment with detergent or cleaning solution.
- 3. Rinse equipment with potable water.
- Prepare VigorOx™ sanitizing solution as follows:
 65 Ye2-1
 Add 1.3 to 1.9 ounces VigorOx™ Liquid Sanitizer to 5 gallons of potable water. This will a provide 128 to 152 ppm peroxyacetic acid and 550 to 644 ppm hydrogen peroxide.
- 5. Fill closed systems with diluted sanitizer solution at a temperature of 5°C (45.0F) to 40°C (104°F) and a minimum contact time of one (1) minute.
- 6. Allow surfaces to drain thoroughly before resuming operation.

No potable water rinse is required if used at or below 0.4% VigorOx™

Always prepare a new sanitizing solution daily to ensure effectiveness. Do not reuse sanitizing solutions. Dispose of any unused sanitizer.

SHIPPING AND PACKAGING

The U. S. Department of Transportation (DOT) classifies VigorOx[™] Liquid Sanitizer as an ORGANIC PEROXIDE.

VigorOx™ is packaged in DOT approved, vented, polyethylene drums.

- 30 gallo:: net weight 250 pounds
- 55 gallon net weight 475 pounds.

Empty druns are not returnable to FMC unless special arrangements have been made. Triple rinse drums with water. Dispose of drums in accordance with local, state, and Federal regulations. Do not reuse drums.

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SAFETY AND HANDLING PRECAUTIONS

Proper handling and storage of VigorOx[™] Liquid Sanitizer solutions minimize health hazards. Material Safety Data Sheets (MSDS) provide information concerning exposure, energency first aid, as well as disposal of VigorOx[™] solutions. You may request an MSDS from any FMC office.

VigorOx[™] solutions which are actively decomposing are potentially hazardous. Observe the following precautions to prevent decomposition:

- Avoid all contaminants, especially dirt, caustic, reducing agents, and metals. Contamination
 and impurities will reduce shelf life and can induce decomposition. Never return unused
 portions of VigorOx™ to the original container.
- Open flames and elevated temperatures should be avoided at all times. These conditions promote decomposition and the concurrent release of oxygen can initiate or promote combustion of other materials. (see Decomposition).
- Do not store VigorOx™ on wooden pallets or near other compustible materials.
- Store VigorOx[™] only in the original vented containers. To ensure proper venting, keep drums upright and do not stack. Keep drums closed when not in use. Avoid damage to containers.

PERSONAL PROTECTIVE EQUIPMENT

Concentrated VigorOx[™] solutions and mists are corrosive to tissues. When handling VigorOx[™] Liquid Sanitizer solutions follow the guidelines listed here and in the Material Safety Data Sheets (MSDS).

EYES

Wear chemical type goggles or a face shield whenever handling or mixing VigorOx[™] solutions. Due to the strong oxidizing nature of VigorOx[™] direct contact with the eyes must be avoided. Any direct contact with the eyes can cause irreversible damage including blindness.

RESPIRATORY SYSTEM

Always use in a well ventilated area. High concentrations of VigorOx[™] vapors will irritate nose, throat and lungs. If strong odors are detected in an enclosed area, do not enter without self-contained breathing apparatus.

SKIN

- Protect your hands with long, general purpose, neoprene gloves.
- Protect yourself with a long rubber or plastic apron
- Protect your feet with rubber or neoprene footwear

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STORAGE

General

To maintain product quality, store VigorOx™ at or below 86°F (30°C). Do not store VigorOx™ in direct sunlight. Provide good ventilation of storage areas.

Procedure for Release or Spill

Stop leak if this can be done without risk. Shut off or remove all ignition sources Remove combustible and organic material. Flush spilled material with large quantities of water. Do not let undiluted material enter sewers or confined spaces.

DISPOSAL

Undituted VigorOx[™] must never be poured down drains or directly into sewers. Unused, undituted VigorOx[™] solutions that become waste material are classified as hazardous wastes due to their low pH and oxidizing properties. Contact the appropriate local, state, or Federal regulatory agency prior to disposal.

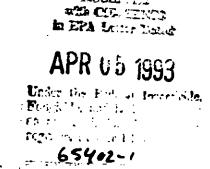
An acceptable method for disposal of spilled material is to dilute with at least twenty volumes of water and allow the VigorOx[™] solution to decompose followed by discharge into a suitable treatment system in accordance with all local, state, and Federal laws, rules and regulations.

DECOMPOSITION

Decomposition reaction exothermic and releases large volumes of oxygen and heat. The oxygen produced by a composition may cause rupture of the container - especially if proper venting is not provided and the released oxygen can increase the intensity of a nearby fire.

If decomposition is suspected, observe the drums for bulging or excessive heat. Cool the drums by deluging with cold water. This will slow the decomposition. Call FMC for assistance (Collect 716-879-0400). Once the container has been cooled for at least 20 minutes, dilute the material with large amounts of water and flush to an acceptable disposal area or sewer if Federal, state, and local laws and regulations allow.





FMC CORPORATION

FMC is a leader in the research, development and application of peroxygen technology. The FMC Chemical Products Group is headquartered in Philadelphia, PA, and is the largest producer of specialty peroxygen chemicals in North America.

FMC is a world leader in the development and manufacture of products which serve the food industry. FMC's agricultural chemicals protect crops in fields and orchards worldwide. FMC equipment harvests crops, handles produce, extracts juices, fills, conveys, packages, and warehouses diverse food products. FMC functional ingredients - phosphates, carrageenans, konjacs, and cellulose gels - enhance many foods.

FMC has substantial depth in research and development directly related to the food industry. FMC is committed to being the food industry's most valued supplier.

CUSTOMER SUPPORT SERVICES

Quality

Product quality is of critical importance to FMC. Excellent quality reflects teamwork and good communication with our customers and throughout the FMC organization. There are many behind-the-scenes activities and programs carried out by FMC plant and technical staffs which have made our product quality second to none.

VigorOx[™] is guaranteed to meet certified limits. We monitor incoming raw material and analyze each segment of the manufacturing operation. Deviations from quality parameters are instantly detected and corrected.

Customer Safety Assistance

FMC is committed to the proper delivery, handling and use of peroxygen products. Safety and handling programs conducted by FMC experts are available to all customers. We encourage you to take advantage of these programs which can be conducted at your location.

Technical Service

All FMC customers have access to a staff of technical service representatives at the Research and Development Center in Princeton, NJ and at the plant in Tonawanda, NY. These chemists and engineers are experienced in the production, use, distribution, and sale of peroxygen chemicals. They are capable of answering questions on the proper handling and use of VigorOxTM Liquid Sanitizer.

Our engineering services include the design and construction of storage facilities, as well as safety inspections of your present warehouse, and assistance in choosing materials of construction.

Distribution Services

FMC operates an extensive distribution network throughout North America and worldwide to provide customers with fast, dependable service.

ACCORDANCE With CORDANCE ACCORDANCE A

FMC and VigorOx are Trademerks of FMC Corporation.

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Because conditions of use are beyond our control, we make no warranty or representation, supressed or implied, except that the product decreased property conditions to the chemical description chemical description of an its label and that the information contained herein is to our imprintege true and assumes. Negligic objections for the chemical description of any specific use or as permission or recommendation to infilinge any patent. No agent, dispressibilities are in the company is sucharized to very any of the terms of this nodes.

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