67470

11-14-2007



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Washington, D.C. 20460

PREVENTION, PESTICIDE SUBSTANCES

John W. Jones Global Leader Product Stewardship Honeywell 101 Columbia Road Morristown, NJ 07962

Subject:

Carboxide®

EPA Reg. No.67470-4

EPA Application Dated: August 15, 2007 EPA Receipt Date: August 20, 2007

Dear Mr. Jones,

The following amendment submitted in connection with registration under the section 3(c)(7)(a) of Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended is acceptable.

Proposed Amendment

· Revise label

General Comments

A stamped copy of the acceptable label is enclosed for your records. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Velma Noble at (703) 308- 6233.

Product Manager (31)

Regulatory Management-Branch1

Antimicrobial Division

(7510p)

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$CARBOXIDE^{\circledR}$

STERILANT-FUMIGANT GAS.

ACTIVE INGREDIENT: ETHYLENE OXIDE (CAS 75-21-8) OTHER INGREDIENT: CARBON DIOXIDE (CAS 124-38-9)

91.5% KEEP OUT OF REACH OF CHILDREN 100.0%

DANGER **PELIGRO**

PRECAUCION AL USUARIO: Si usted no lee Ingles, no use este producto hasta que la etiqueta la haya sido explicada ampliamente. Users must follow the requirements of the OSHA occupational exposure standard for ethylene oxide (29 CFR 1910.1047).

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGERI LIQUID AND GAS UNDER PRESSURE. CAUSES EYE AND SKIN BURNS. HARMFUL IF INHALED. HARMFUL F SWALLOWED. MAY CAUSE RESPIRATORY AND NERVOUS SYSTEM DAMAGE. DANGER! CANCER HAZARD AND REPRODUCTIVE HAZARD.

EFFECTS OF OVEREXPOSURE: May be fatal if inhaled in high concentrations. May cause irritation of respiratory tract, chest tightness, headache, nausea, vomiting, diarrhea, lightheaded feeling, dizziness, weakness, drowsiness, cyanosis, loss of coordination, convulsions, coma, delayed lung injury (fluid in lungs), immediate or delayed skin irritation and blisters, allergic skin reaction.

OTHER POSSIBLE DELAYED HEALTH EFFECTS: May cause nervous system injury, cataracts, adverse reproductive effects, chromosomal and mutagenic changes, and cancer.

PEL: 1PPM-TWA Ethylene Oxide (OSHA-29CFR1910.1047)

EL: 5PPM-excursion limit, 15 minutes.

ODOR: Ether-like at high concentrations. Exposure to toxic levels may occur without warning or detection by the user.

PRECAUTIONS: Do not breathe vapor. Do not swallow. Do not get in eyes, on skin, on clothing. Store and use with adequate ventilation in accordance with 29 CFR 1910.1047

PHYSICAL AND CHEMICAL HAZARDS

Contents under pressure. Use only in closed system. No part of the container may be exposed above 125°F (52°C). Close valve when not in use and when empty. Use in accordance with tag

LEAK: Evacuate area and keep personnel upwind. Use selfcontained breathing apparatus and protective clothing, and shut off leak if without risk.

FIRE: Move container away from fire if without risk. Use water, spray or fog nozzle to keep container cool.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds estuaries, oceans or public waters unless this 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

FIRST AID

IN ALL CASES OF OVEREXPOSURE, GET MEDICAL 'ATTENTION IMMEDIATELY, CALL THE POISON CONTROL' CENTER OR DOCTOR FOR TREATMENT ADVICE.

IF INHALED: Remove exposed person to fresh air, keep warm, If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call the Poison Control Center or doctor for advice even if no symptoms are present. Keep under medical observation. Symptoms may be delayed.

IF IN EYES: Hold eyelids open and rinse slowly and gently with water for 15-20 minutes. Call the Poison Control Center or doctor

IF ON SKIN OR CLOTHING: Immediately rinse with plenty of water for 15-20 minutes while removing contaminated clothing and shoes. Call the Poison Control Center or doctor for advice. Aerate, wash or clean contaminated clothing and discard leather Honeywell

IF SWALLOWED: Call the Poison Control Center or doctor for advice. Give at least two plasses of water. Do not induce vomiting. Do not give anything by mouth to an unconscious

NOTE TO PHYSICIAN: REFER TO SECTION IV. FIRST AID MEASURES OF THE MSDSs FOR EACH INGREDIENT, To obtain MSDSs, call 1-800-522-8001.

Skin exposure to Ethylene Oxide will commonly result in skinirritation with extensive blister formation. At high concentrations severe conjunctivitis can occur. Irritation of the respiratory tract may occur, but without acute lung edema. Symptoms of systemic introduction are headache, nausea, vorniting, incoordination, and cardiac irregularities. Treatmentis symptomatic.

IN CASE OF EMERGENCY CALL:

1-800-498-5701. Have a copy of the label or the MSDS when calling a poison control center or doctor or going for treatment.

BEFORE USING OR HANDLING THIS PRODUCT YOU MUST ALSO READ AND UNDERSTAND THE HONEYWELL MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT. FOR INDUSTRIAL USE ONLY. NOT FOR USE IN HOSPITALS OR HEALTHCARE FACILITIES.

DOT/IMO Shipping Name: Ethylene Oxide and Carbon Dioxide Mixture

US DOT Hazard Class: 2.2

ID Number: UN 1952 DOT-SP 10184

EPA Registration No. 67470-4

EPA Establishment No. 67470-AZ-001

Honeywell

101 Columbia Rd., Morristown, NJ 07962-1053

NET CONTENTS-

BATCH-

DO NOT REMOVE THIS LABEL

MADE IN USA

STB-0600 (2/07)

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide,registered under EPA Reg. No. 67470-

DO NOT REMOVE TAG

CARBOXIDE® STERILANT-FUMIGANT GAS

DANGER! LIQUID AND GAS UNDER PRESSURE HARMFUL IF INHALED.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. It is a violation of Federal Law to use this product in a manner inconsistent with its tabeling. NOTE TO USER: When used in the workplace, it is the employer's responsibility to ensure that all personnel are familiar with and adhere to 29 CFR 1910.1047. Carboxide is a highly hazardous material and must be used only by personnel trained in its proper use. All persons working with Carboxide must have knowledge of the hazards of this chemical mixture and must be trained in the proper use of required respirator equipment, monitoring and detection devices, and in the implementation of emergency procedures.

To be used only by persons experienced in Carboxide sterilization and furnigation, or by persons under direct supervision of persons who are experienced in Carboxide sterilization and furnigation. Use only in accordance with the directions and the safety precautions listed on the label and this tag. See current Honeywell Material Safety Data Sheet for Carboxide. STERII DATION AND FUNIGATION

STERILIZATION AND FUMIGATION
This product may not be used on or in any form of basil.

After August 1, 2008, this product may only be applied to or on spices, dried vegetables or seasonings utilizing an ETO starlization method that uses a single sterilization chamber to pre-condition and aerate with an elternating vacuum and aeration purging procedure. It you wish to employ an alternative method to that described below, you must contact the Environmental Protection Agency office of Pesticide Programs for instruction on how to receive authorization.

Place spices in the treatment chamber. Assure that the mixture of ethylene oxide and air is compatible with the chamber design, then, introduce into the chamber a concentration of ethylene oxide not to exceed 500 mg/L, with a dwell time not to exceed 15 hours. Then evacuate the gas from the chamber using a sequence of not less than 16 steam washed (injections and evacuations) between 1.0 PSIA (28* Hg) while maintaining a minimum chamber temperature of 120*F. US Patent No. 6,132,679.

Carboxide must be used only to sterilize medical and laboratory items, pharmaceuticals, aseptic packaging, and to reduce the microbial load on cosmetics and whole and ground spices, and artifacts, archival material or library objects.

Items to be sterilized must be thoroughly cleaned of soil before being placed in any type of

Stetrizer.

Carboxide must be used only in facilities that meet the requirements of 29 CFR 1910.1047 in non-portable (commercial) vacuum or gas-tight chambers designed for use with 8.5% ethylene oxide, and 91.5% carbox dioxide. Carboxide must be used only by persons who have been trained in accordance with 29 CFR 1910.1047. When used to sterilize health care items, Carboxide must be used in non-portable (commercial) ethylene oxide gas sterilizers that have FDA clearance, and in accordance with directions supplied by the sterilizer manufacture. manufacturer.

NOTE: It is a violation of Federal Law to use Carboxide Sterilant/Furnigant Gas for the furnigation of beenives, airplanes, trains, buses, ships, trucks, trailers, warehouses, or other

- Carboxide cycle parameters depend on several steritzing/fumigating variable factors: preconditioning (if any); exposure time; chamber air concentration; ethylene oxide concentration; chamber temperature; humidity level; types and quantities of ifems to be steritized/fumigated; packaging; ladd configuration in the camber; microbial challenge method; desired level of steritify assurance; and the desired performance of the steritized; fumigated
- The following is a list of ranges for the critical variables which must be in proper relationship for Carboxide to be an effective sterilizing/furnigating agent. This information should be considered general, and not as a replacement for detailed information issued by manufacturers.

TEMPERATURES - 70°F TO 150°F
PRE-VACUUM - typically 20 to 28 inches of mercury. Use vacuums compatible with the products and packages to be sterilized/furnigated.
MOISTURE - relative humidity of 33% to 80%
GAS CONCENTRATION - 250 mg/L to 800 mg/L milligrams of ethylene oxide per liter of chamber value.

chamber volume. EXPOSURE TIME - 45 minutes to 20 hours. EXPOSURE TIME - 45 minutes to 20 hours exposure times and vented to an appropriate ethylene oxide capture or destruction device.

AERATION - aerate sterilized/furnigated materials before use. Do not allow any person to enter the chamber or aeration area if such entry will result in exposures to ethylene oxide above the levels established in 29 CFR 1910.1047.

Cycle parameters and post cycle aeration parameters (temperature, time, air flow-rate) can affect residue levels. The user must determine that the parameters chosen result in goods which comply with applicable Federal and State residue requirements. For residual limits of ethylene oxide on drug products and medical products see 21 CFR 201.1 sub-section (d). For residual amounts on agricultural commodities see 40 CFR 180.151.

- D. The sterilization/furnigation cycle parameters should be those prescribed by the sterilizer equipment manufacturer. If other cycle parameters are used, the safety and efficacy of the alternate cycle parameters must be validated and are the responsibility of the user. GENERAL INSTRUCTIONS
- 2.

- GENERAL INSTRUCTIONS
 Always check cyfinder valves and relief valves for leaks before moving cyfinder into your facility.
 This cyfinder is equipped with an eductor tube for liquid delivery. Use vaporizing equipment to convert the liquid into a gas.
 The approximate vapor pressure exerted by this gas mixture will be 750 psig (53.76 kg/cm²) at 70°F (21.1°C) while liquid is present. Vapor pressure will be higher if temperature is above 70°F (21.1°C), lower if temperature is below 70°F (21.1°C).
 Cyfinder must be in an upright position when discharging. Cylinder must be secured to prevent falling over.
 Discharge valve outlet is provided with a CGA 350 connection which has left-hand threads. Remove protective valve plug and make sure valve threads are undamaged. The connection to the cyfinder valves should be brass CGA 350 connector. Use of other metals could cause damage to the brass cyfinder valve. Do not attach an ordinary pipe fitting to this valve. All other piping and fittings should be steel or stainless steel, capable of withstanding the pressure to be encountered. Do not use rubber or plastic materials. Install relief devices where liquid can be trapped between valves.

 Install check valves in the discharge line from this cyfinder to processing equipment to prevent back-flow into cyfinder.

- 8. Install check valves in the discharge line from this cylinder to processing equipment to prevent back-flow into cylinder.

 9. To open cylinder valve, turn handwheel counterclockwise. Do not use a wrench or other leverage device to open or dose cylinder valve.

 10. Use with adequate general and local ventilation.

 11. Always open the cylinder valve wide open when discharging contents. Do not restrict flow of gas from cylinder valve or use pressure regulators because the ratio of carbon dioxide to ethylene oxide in the gas mixture will be changed.

 2. If dosage required is less than the entire contents of this cylinder, determine the quantity withdrawn by using an appropriate scale. The proper gas mixture can only be maintained by discharging a minimum of 12 pounds (5.4 kg) from each cylinder.

STORAGE AND DISPOSAL
Do not contaminate food, feed, or water by storage and disposal.
PESTICIDE STORAGE

PESTICIDE STORAGE
Store according to instructions provided on label and this tag. Store away from heat in an area with adequate ventilation. Do not store in direct sunlight. To minimize polymer growth, ethylene oxide must not be stored in any place where the temperature consistently exceeds 100°F. To control ethylene oxide polymer growth, use all sterilard gas on a firsh, inist-out-basis. To minimize sterilizer downtime, it is recommended to use product within 12 months of the fill date marked on the container (batch number).

PESTICIDE DISPOSAL

PESTIGIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray, or mixture of 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

Return container to supplier for reuse. Before returning container to supplier: Replace valve plugs tightly in valve outlets. If valve plugs are not available, contact supplier. Check container valves and plugs for leaks prior to shipment. If leaks are detected, contact supplier.

Honeywell

101 Columbia Road Morristown, NJ 07962-1053 EPA Registration No. 67470-4

STT-0600 (2-07)