INITED STATES ENVIRONMENTAL PROTFCTION AGENCY

36736-5

1/29/2007

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

JAN 2 9 2007

Joanne K. Cashin Registration Compliance Advisor ARC Specialty Products, Balchem Corporation P.O. Box 600 New Hampton, NY 10958

Subject:

Sanitizing Gas 5

EPA Registration 36736-5

Amendment Dated: Oct 26, 2006 EPA Received Date: Oct 31, 2006

Dear Joanne K. Cashin

The following amendment submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended, is acceptable with comments.

Proposed Amendment

Revised Label

Label Comments

The second paragraph must be revised to reflect the labeling as provided by the Tolerance Reassessment and Risk Management Decision under the Sterilant and Fumigant Section and should read as follows:

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 and concentration of Ethylene Oxide not to exceed 500 mg/L, with a dwell time not to exceed 16 hours. Then evacuate the gas from the chamber using a sequence of not less then 16 steam washes (injections and evacuations) between 1.0 PSIA (28"Hg) and 2.0 PSIA (26" Hg) while maintaining a minimum chamber temperature of 120°F

5) 17516	CONCURRENCES	. • :
SURNAME MALMICA	***************************************	<u> </u>
DATE MI-26-07	***************************************	*****
EPA Form 1320-1A (1/90)	Ned on Recycled Paper	-

General Comments

A stamped copy of the accepted label with conditions is enclosed for your records. Submit (3) copies of your final printed label before distributing or selling the product bearing the revised labeling. Submit and /or cite all data required for the registration/re-registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

A stamped copy of the accepted label is enclosed for your records. Submit (3) copies of your final printed label 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.

Sincerely,

Velma Noble

Product Manager (31)

Regulatory Management Branch1 Antimicrobial Division (7510c)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS with COMMENTE gistration No. 36736-5 CAUSE NERVOUS | 36736-NY-01 JAN 2 9 2007 | 36736-SC-01 **DANGERI CAUSES EYE AND SKIN** BURNS. HARMFUL IF INHALED. MAY SYSTEM DAMAGE. a 36736-MO-01 DANGERI CANCER HAZARD AND indicide, and Rodenticide Act as HAZARD. mended for the pesticide.

EFFECTS OF OVEREXPOSURE: May be fatal if inhaled in find EPA Reg. No. 36736 -5 concentrations. May cause irritation of the respiratory tract, chest tightness, headache, nausea, vomiting, diarrhea, light-headed feeling, dizziness, weakness, drowsiness, cyanosis, loss of coordination, convulsions, coma, delayed lung injury (fluid in the lungs), immediate or delayed skin irritation or blisters, allergic skin reaction.

OTHER POSSIBLE DELAYED HEALTH EFFECTS:

May cause nervous system injury, cataracts, adverse reproductive effects, chromosomal and mutagenic changes, and

PEL:

1 PPM TWA (as per the Ethylene Oxide

Standard 29 CFR 1910.1047).

5 PPM - excursion limit 15 minutes.

ODOR: Ether-like at high concentrations. Exposure to toxic

levels may occur without warning to or detection by the

PRECAUTIONS - Do not breathe vapor, Do not swallow, Do not get in eyes, on skin, or on clothing. Store and use with adequate ventilation in accordance with the Ethylene Oxide Standard (29 CFR 1910.1047).

PHYSICAL OR CHEMICAL HAZARDS:

DANGER! - HIGHLY FLAMMABLE LIQUID AND GAS UNDER PRESSURE.

Contents under pressure. Do not use near flame, sparks, hot surfaces, or allow sources of ignition near the sterilization/furnigation area. Sterilizing Gas 5 is extremely flammable and reactive. Ground all equipment (including this container) to prevent sparks.

LEAK - In case of leak evacuate area and keep personnel upwind. Shut off all sources of ignition. Use self-contained breathing apparatus and protective clothing, and shut off leak if without risk.

FIRE - In case of fire move container away from fire if without risk. Use water spray or fog nozzle to keep container cool.

ENVIRONMENTAL HAZAKDS:

Do not discharge effluent containing this product into takes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Effluent 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 withour previously notifying the local sewage treatment plant authority. For guidance contact your Stale Water Board or Regional Office of the EPA.

It is imperative that users of this material be familiar with ARC Specialty Products' Material Safety Data Sheet for Sterilizing Gas 5, the label and valve tag attached to this cylinder.

801466 (Rev. 10/06 - supercedes 12/03)

STERILIZING

GAS 5

STERILANT/FUMIGANT ACTIVE INGREDIENT: ETHYLENE OXIDE....20% (CAS NO: 75-21-8) INERT INGREDIENT: CARBON DIOXIDE......80% (CAS NO 124-38-9)

Keep Out of Reach of Children

DANGER PELIGRO

PRECAUTION AL USARIO: Si usted no lee Ingles, no use este producto hasta que la etiqueta le hava sido explicada ampliamente.

Users must follow requirements of the OSHA Occupational Exposure Standard for ethylene oxide (29 CFR 1910.1047).

FIRST AID

IN ALL CASES OF OVEREXPOSURE GET MEDICAL ATTENTION IMMEDIATELY. TAKE PERSON TO A DOCTOR OR EMERGENCY TREATMENT FACILITY AT ONCE

IF INHALED - Move person to fresh air. Keep warm. If person A. For complete use directions (including type of surfaces, objects be delayed.

IF ON SKIN OR CLOTHING- Take off contaminated clothing This product may be used only to sterilize medical or laborator

discard leather goods.

IF SWALLOWED - Call poison control center or doctor immediately for treatment advice. Have person sip two glasses This product may not be used on or in any form of basil. of water if able to swallow. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

for treatment advice.

you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

commonly result in skin irritation with extensive blister Programs for instruction on how to receive authorization. formation. At high concentrations, severe conjunctivitis can occur. Irritation of the respiratory tract may occur, but without acute lung edema. Symptoms of systemic intoxication are headache, nausea, vomiting, incoordination, and cardiac irregularities. Treatment is symptomatic.

Refer to ARC Specialty Products' Sterilizing Gas 5 MSDS, I unable to locate MSDS for this product, please call ARC Specialty Products at the telephone number below and request that one be sent immediately.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manne inconsistent with its labeling. It is the employer's responsibility to follow the requirements of the Ethylene Oxide Standard (29 CFF 1910.1047). This product may be used only in facilities that mee the requirements of the Ethylene Oxide Standard (29 CFF 1910.1047). This product may be used only in non-portable (commercial) vacuum or gas-tight chambers designed for use with 20% ethylene oxide, 80% carbon dioxide. This product may be used only by persons who have been trained in accordance with the Ethylene Oxide Standard (29 CFR 1910.1047). When used to sterilize health care items, this product must be used in non-por table (commercial) ethylene oxide gas sterilizers that have FD/ clearance.

AS A STERILANT AND FUMIGANT GAS:

is not breathing, call 911or an ambulance, then give artificial or items/products recommended for treatment, pre-cleaning respiration, preferably by mouth-to-mouth, if possible. If instructions, concentration of gas per unit volume of closed space breathing is difficult, give oxygen. Call a poison control center to be treated, exposure time/temperature, relative humidity or doctor for further treatment advice, even if there are no ventilation/aeration time, and method of monitoring to be used symptoms. Keep under medical observation - symptoms may refer to the ethylene oxide gas sterilizer manufacturers' Operator.

and shoes. Rinse skin immediately with plenty of water for 15- items, pharmaceuticals, and aseptic packaging, (see 21 CFF 20 minutes. Call a poison control center or doctor for treatment 201.1(d)(5)), or to reduce microbial load on cosmetics, whole and advice. Aerate, wash or clean contaminated clothing and ground spices or other seasoning materials (see 4OCFR 180.151) and artifacts, archival material or library objects.

IF IN EYES - Hold eye open and rinse slowly and gently with After August 1, 2008, this product may only be applied to o water for 15-20 minutes. Call a poison control center or doctor on spices, dried vegetables or seasonings utilizing an ETC sterilization method that uses a single sterilization chamber to HOTLINE NUMBER - Have the product container or label with pre-condition and aerate with an alternating vacuum and aeration purging procedure. If you wish to employ ar alternative method to that described below, you must contact NOTE TO PHYSICIAN - Skin exposure to Sterilizing Gas 5 will the Environmental Protection Agency Office of Pesticid-

> USE THIS PRODUCT WITHIN 120 DAYS OF ITS PURCHASE.

In case of accident or emergency, call CHEMTREC at 800-424-9300.

AER Registration No. 36736-5 ₽ 52A establishment No. ::35084-PA-2 36736-NY-01 □ 36736-SC-01 i □ 36736-MO-01 beecticide. enticida Act as pricide. A Reg. Na. 36736 -5

STERILIZING GAS 5

STERILANT/FUMIGANT ACTIVE INGREDIENT: ETHYLENE OXIDE....20% (CAS NO: 75-21-8) INERT INGREDIENT CARBON DIOXIDE.....80% (CAS NO: 124-38-9)

TOTAL:	 		100%

Keep Out of Reach of Children

DANGER PELIGRO

PRECAUTION AL USARIO: Si usted no lee Ingles, no use este producto hasta que la etiqueta le hava sido explicada ampliamente.

Users must follow requirements of the OSHA Occupational Exposure Standard for ethylene oxide (29 CFR 1910.1047).

FIRST AID

IN ALL CASES OF OVEREXPOSURE GET MEDICAL ATTENTION IMMEDIATELY. TAKE PERSON TO A DOCTOR OR **EMERGENCY TREATMENT FACILITY**

discard leather goods.

IF SWALLOWED - Call poison control center or doctor immediately for treatment advice. Have person sip two glasses This product may not be used on or in any form of basil. of water if able to swallow. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

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sent immediately.

DIRECTIONS FOR USE

1910.1047). This product may be used only in non-portable CHAMBER. (commercial) vacuum or gas-tight chambers designed for use with 20% ethylene oxide, 80% carbon dioxide. This product may be 2. INSTALLATION AND OPERATION OF THE CONTAINER used only by persons who have been trained in accordance with Follow the directions on the valve tag attached to this container. the Ethylene Oxide Standard (29 CFR 1910.1047). When used to sterilize health care items, this product must be used in non-portable (commercial) ethylene oxide gas sterilizers that have FDA STORAGE AND DISPOSAL

1. AS A STERILANT AND FUMIGANT GAS:

is not breathing, call 911or an ambulance, then give artificial or items/products recommended for treatment, pre-cleaning cause polymerization. respiration, preferably by mouth-to-mouth, if possible. If instructions, concentration of gas per unit volume of closed space PESTICIDE DISPOSAL breathing is difficult, give oxygen. Call a poison control center to be treated, exposure time/temperature, relative humidity, Pesticide wastes are acutely hazardous. Improper disposal of

20 minutes. Call a poison control center or doctor for treatment 201.1(d)(5)), or to reduce microbial load on cosmetics, whole and representative at the nearest EPA Regional Office for guidance. advice. Aerate, wash or clean contaminated clothing and ground spices or other seasoning materials (see 40CFR 180.151), CONTAINER DISPOSAL and artifacts, archival material or library objects.

IF IN EYES - Hold eye open and rinse slowly and gently with After August 1, 2008, this product may only be applied to or 2 water for 15-20 minutes. Call a poison control center or doctor on spices, dried vegetables or seasonings utilizing an ETO 3. sterilization method that uses a single sterilization chamber to you when calling a poison control center or doctor, or going for aeration purging procedure. If you wish to employ an treatment. You may also contact 1-800-424-9300 for alternative method to that described below, you must contact alternative method to that described below, you must contact NOTE TO PHYSICIAN - Skin exposure to Sterilizing Gas 5 will the Environmental Protection Agency Office of Pesticide

> USE THIS PRODUCT WITHIN 120 DAYS OF ITS PURCHASE.

In case of accident or emergency, call CHEMTREC at 800-424-9300.

Net Contents:

lbs.

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 6 hours. Then evacuate the gas from the chamber using a sequence of not less than 21 steam washes (injections and evacuations) between 1.5 PSIA (27" Hg) and 5.0 PSIA (20"Hg) while maintaining a minimum chamber temperature of 115° F.

B. Sterilization/fumigation with Sterilizing Gas 5 must be performed only in vacuum or gas tight chambers designed for use with Sterilizing Gas 5.

Refer to ARC Specialty Products' Sterilizing Gas 5 MSDS, If C. Sterilizing Gas 5 cycle parameters depend on several unable to locate MSDS for this product, please call ARC Specialty sterilizing/fumigating variable factors: pre-conditioning (if any); Products at the telephone number below and request that one be exposure time; chamber air pressure; gas concentration; types and quartities of items to be sterilized/furnigated; packaging; load cor uration in the chamber; microbial challenge method; desired degree of disinfection; and the desired performance of the sterilized/fumigated product and package.

D. The sterilization/fumigation cycle parameters should be those It is a violation of Federal Law to use this product in a manner prescribed by the equipment manufacturer. If other cycle inconsistent with its labeling. It is the employer's responsibility to parameters are used, the safety and efficacy of the alternate cycle follow the requirements of the Ethylene Oxide Standard (29 CFR parameters must be validated and are the responsibility of the 1910.1047). This product may be used only in facilities that meet user. NEVER USE PARAMETERS WHICH ALLOW FLAMMABLE the requirements of the Ethylene Oxide Standard (29 CFR MIXTURES OF STERILIZING GAS 5 AND AIR TO ENTER THE

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

Use in accordance with tag attached to valve. Store in cool, well-IF INHALED - Move person to fresh air. Keep warm. If person A. For complete use directions (including type of surfaces, objects, ventilated area. Avoid exposure to heat or direct sunlight as may

or doctor for further treatment advice, even if there are no ventilation/aeration time, and method of monitoring to be used) exc as pesticide, spray, or mixture of rinsate is a violation of symptoms. Keep under medical observation – symptoms may refer to the ethylene oxide gas sterifizer manufacturers' Operators Fec all Law. If these wastes cannot be disposed of by use IF ON SKIN OR CLOTHING— Take off contaminated clothing This product may be used only to sterilize medical or laboratory according to label instructions, contact your State Pesticide or and shoes. Rinse skin immediately with plenty of water for 15- items, pharmaceuticals, and aseptic packaging, (see 21 CFR Environmental Control Agency, or the Hazardous Waste

When empty, return to supplier only. Before returning container to

- Cylinder pressure should be below 600 psig when empty. Check that container valve is closed.
 - Replace valve plug tightly in valve outlet.
 - Check container valve and plug for leaks prior to shipment.

Distributed Bv: **ARC Specialty Products Balchem Corporation** P.O. Box 600 · New Hampton, NY 10958 Tel: 845-326-5611 Fax: 845-326-5706

www.arcspecialtyproducts.com