## UN. ID STATES ENVIRONMENTAL PROTEC. IN AGENCY

JAN 2 9 2007

Ms. Joanne Cashin ARC Specialty Products Balchem Corporation P.O. Box 600 New Hampton, NY 10958

Subject:

Ethylene Oxide - MUP

EPA Registration No.: 36736-8 Submission Date: October 26, 2006 EPA Receipt Date: October 31, 2006

Dear Ms. Cashin,

The following amendment submitted in connection with registration under FIFRA, as amended, is acceptable with conditions listed below.

- Deletion of Basil
- Compliance with Tolerance Reassessment and Risk Management Decision for Ethylene Oxide

#### **Conditions**

Revise the label as follows:

The fifth paragraph under "For use in the formulation of Sterilizing Gas Mixtures" must be revised to reflect the labeling provided in the Tolerance Reassessment and Risk Management Decision under the Sterilant and Fumigant Section:

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 16 hours. Then evacuate the gas from the chamber using a sequence of not less than 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.

#### **General Comments**

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

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Should you have any questions concerning this letter, please contact Jacqueline McFarlane at (703) 308-6416.

Sincerely,

Velma Noble

Product Manager (31)

Regulatory Management Branch I Antimicrobials Division (7510P)

Enclosure: Stamped Label

CONCURRENCES										
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#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGERI CAUSES EYE AND SKIN BURNS, HARMFUL IF INHALED, MAY CAUSE NERVOUS SYSTEM DAMAGE.

Under the Paderal Insecticide Bedicide and Rodenticide Art a part for the perfecte Marked 1100 EPS Con 10 36736 - 8

ACCEPTED.

TON-Letter Dated

# ETHYLENE OXIDE-MUP

FOR MANUFACTURING USE ACTIVE INGREDIENT ETHYLENE OXIDE ... 100% (CAS NO. 75-21-8)

DANGER! CANCER HAZARD AND REPRODUCTIVE HAZARD.

EFFECTS OF OVEREXPOSURE: May be fatal if inhaled in high 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: \*\*

cause nervous system injury, cataracts, adverse repr ctive effects, chromosomal and mutagenic changes, and car.

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 user.

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).

# PHYSICALTOR CHEMICAL HAZARDS: DANGERI CHICHEY ELAMMABLE L'OUID END

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

LEAC - In case of leak evacuate area and keep personnel upwind. Shut off all sources of ignition. Use self-contained ing apparatus and protective clothing, and shut off leak if brez" with

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

ENVIRONMENTAL HAZAROS:

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 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 without previously notifying the local sewage treatment plant authority. For guidance contact your State 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 100% Ethylene Oxide, the label and valve tag attached to this drum.

EPA Registration No. 36736-8

EPA Establishment No. 36736-NY-01

> 36736-SC-01

36736-MO-01

Keep Out of Reach of Children

# DANGER PELIGRO

PRECAUTION AL USARIO SI usted no lee Ingles, no use este producto hasta que ja etiquela le haya sido explicada ampliamente. 

Users must follow requirements of the OSHA Occupational Exposure Standard for ethylene oxide (29 CFR 1910,1047).

#### FIRST AID

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A Move person to fresh air. Keep warm. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. If breathing is difficult, give oxygen. Call a poison control center or doctor for further treatment advice, even if there are no symptoms. Keep under medical observation symptoms may be delayed.

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

clothing and discard leather goods. Call poison control center immediately for treatment advice. Have person sip

at least two glasses of water if able to swallow. Do not induce vomiting. Do not give anything by mouth to an unconscious

FIGURES - Hold eye open and rinse slowly and gently with water for 15-20 minutes. Call poison control center or doctor

OT SENDEBER- Have the product container or label with 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.

OTEGO PHYSICIAN - Skin exposure to Ethylene Oxide will commonly result in skin irritation with extensive blister formation. At high concentrations, severe conjunctivitis can occur. Imitation 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' Ethylene Oxide MSDS. If 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 manner inconsistent with its labeling. It is the employer's responsibility to follow the requirements of the Ethylene Cxide Ctandard (29 CFR 1910.1047). This product may be used only in facilities that meet the requirements of the Ethylene Oxide Standard (29 CFR 1910.1047). This product may be used only in non-portable (commercial) vacuum or gas-tight chambers designed for use with 100% ethylene oxide. 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 ethylene oxide gas sterilizers that are approved by the registrant of the sterilant and listed in the current EPA registered, and/or FDA approved. instructions for use.

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This product may be used for formulation into a sterilant/furnigant for the following pesticidal uses: to sterilize medical or laboratory items, pharmaceuticals and aseptic packaging, (see 21 CFR 201.1(d)(5)), or as a furnigant to reduce microbial load on cosmetics, whole and ground spices or other seasoning materials, (see 40 CFR 180,151), and artifacts, archival material or library objects.

Any product formulated from this product that is registered for use on spices, dried vegetables, or seasonings must include the following label language:

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 sterilization method that uses a single sterilization chamber to pre-condition and aerate with an alternating vacuum and aeration purging procedure. If 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 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.

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2. INSTALL Follow the di

STORAC Do not conta PESTICIDE valve. Store or direct sunl PESTICIDE Improper dis is a violation of by use a Pesticide or Waste repre guidance. CONTAINER

Before return Pressuri at 70° F

> Replace Check c

**USE THIS P** 

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