

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.
11491-8
TERM OF ISSUANCE

DATE OF ISSUANCE

NOV 12 1993

NOTICE OF PESTICIDE: ☐ REGISTRATION
☐ REREISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

8.5% Ethylene Oxide & Carbon
Dioxide Sterilizing Gas

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Liquid Carbonic Industries Corporation
810 Jorie Blvd
Oak Brook, IL 60521

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

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 a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the labeling changes listed below before you release the product for shipment:

- a. Add the phrase "EPA Registration No. 11491-8".
- b. Delete the phrase: "...and other inanimate objects.(last page)
- c. Add the following additional statement to the storage disposal section:

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

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

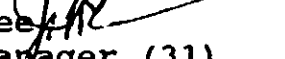
DATE

- 2 -

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,

John H. Lee 
 Product Manager (31)
 Antimicrobial Program Branch
 Registration Division (H7505C)

Enclosures

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

DRAFT LABEL

 *
 * 8.5% ETHYLENE OXIDE & CARBON DIOXIDE STERILIZING GAS *
 *
 * ACTIVE INGREDIENT: ETHYLENE OXIDE 8.5% *
 * INERT INGREDIENT: CARBON DIOXIDE 91.5% *
 *

KEEP OUT OF REACH OF CHILDREN
 DANGER

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals:

DANGER - Non-flammable liquid and gas under pressure. Can cause eye and skin burns. Do not get liquid in eyes, on skin, or on clothing. May be harmful or fatal if inhaled. Do not breathe gas. Can cause irritation of the respiratory tract. Symptoms of exposure may be delayed. Cancer hazard and reproductive hazard on the basis of Ethylene Oxide content.

Physical or Chemical Hazards:

CONTENTS UNDER PRESSURE - Back flow into the container could cause container rupture. Always use a back-flow preventing device in the container discharge piping. Container temperature should not exceed 125 degrees F (52 C). Secure the cylinder in an upright position during storage and use. Keep protective valve cap in place when not in use. Use only with closed systems which are rated for the cylinder pressure (750 psig). Close valve after each use and when empty. Cylinder must not be refilled except by or with the consent of Liquid Carbonic.

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 of the EPA.

STATEMENT OF PRACTICAL TREATMENT

IN CASE OF CONTACT WITH EYES, SKIN OR CLOTHING - Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing the contaminated clothing and shoes. Call a physician. Wash clothing before re-use. Discard contaminated shoes.

IF INHALED OR SUSPICION OF INHALATION - Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician even if no symptoms are present. Keep under medical observation. Symptoms may be delayed.

LIQUID CARBONIC: ETO/CO2 VOL1

ACCEPTED
 with COMMENTS
 An EPA Letter Order
 NOV 12 1993
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act
 as amended for the pesticide
 registered under EPA Reg. No.
 11491-8

DRAFT LABEL: 8.5% ETHYLENE OXIDE & CARBON DIOXIDE STERILIZING GAS
CONTINUATION PANEL No. 1

NOTE TO PHYSICIAN: See attached cylinder tag.

DIRECTIONS FOR USE

**It is a Violation of Federal Law to Use this Product
a Manner Inconsistent with its Labeling**

This product is for industrial use only in commercial gas sterilizers designed for use with ethylene oxide. This product should be used only by persons experienced in the use of ethylene oxide / carbon dioxide sterilizing gas mixtures or under the supervision of such an experienced person.

See attached cylinder tag for further directions for use.

STORAGE AND DISPOSAL

STORAGE: Do not use or store near sources of heat, open flames, or in direct sun. Cylinder storage temperatures must not exceed 125 degrees F (52 C). To minimize polymerization of ethylene oxide, storage at less than ambient temperature is recommended. Do not puncture or drop cylinders. Keep valve protector cap in place at all times that cylinder is not in use.

PESTICIDE DISPOSAL: The contents of this cylinder must either be used for the label purpose or must be returned in the original cylinder to Liquid Carbonic Industries for handling. Do not attempt disposal of this product without the express direction of Liquid Carbonic Industries.

CONTAINER DISPOSAL: Return empty and out-dated cylinders to Liquid Carbonic Industries. This cylinder must not be re-charged except by or with the consent of Liquid Carbonic Industries. Prior to return, check valve for leaks. If leaks are detected, contact supplier.

DOT/IMO Shipping Name: Compressed Gas, N.O.S. (Ethylene Oxide,
Carbon Dioxide) UN 1956

Reportable Quantity (RQ) as Ethylene Oxide: 10 lbs (4.54 Kg)

Net Contents: _____ lbs.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

NOV 12 1993

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

LIQUID CARBONIC: ETO/CO2 VOL1

114918

DRAFT LABEL: 8.5% ETHYLENE OXIDE & CARBON DIOXIDE STERILIZING GAS
CONTINUATION PANEL No. 2

EPA Registration No. 11491-8

Produced at EPA Establishment No. (as marked on label):

11491-CA-1
11491-CA-2

11491-IL-1
11491-IL-2

11491-PA-1
11491-TX-1

DO NOT REMOVE THIS LABEL

EMERGENCY RESPONSE PHONE # (504) 673-8831
CHEMTREC (800) 4242-9300

LIQUID CARBONIC INDUSTRIES CORPORATION
810 Jorie Blvd
Oak Brook, IL 69521-2216

Made in U.S.A

ACCEPTED
with COMMENTS
In EPA Letter Dated:

NOV 12 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
114 91-8

LIQUID CARBONIC: ETO/CO2 VOL.1

697

DRAFT LABEL: 8.5% ETHYLENE OXIDE & CARBON DIOXIDE STERILIZING GAS
CYLINDER TAG DRAFT

DO NOT REMOVE THIS TAG

ACCEPTED
with COMMENTS
In EPA Letter Dated:

8.5% ETHYLENE OXIDE & CARBON DIOXIDE STERILIZING

NOV 12 1993

DANGER! NON-FLAMMABLE LIQUID AND GAS UNDER PRESSURE
HARMFUL IF INHALED

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

This Cylinder Tag Contains Additional Information which is Considered an Integral Part of the Label for this Product

11491-8

NOTE TO PHYSICIAN:

This product contains ethylene oxide as the active ingredient. Exposure of eyes or skin may result in immediate or delayed skin irritation and blistering with possible allergic skin reaction. The affected areas should be thoroughly cleaned and treated symptomatically. Inhalation may produce a number of effects, the most immediately serious of which is pulmonary edema, a result of ethylene oxides respiratory tract irritancy and which may be delayed in onset. If this occurs to a significant degree it can be fatal. Management of inhalation exposures should include extended observation and respiratory support as indicated by the patient's progress and presentation. Due to the underlying respiratory irritation in cases of pulmonary edema the use of hyperbaric oxygen may, however, be contraindicated and its use must be carefully considered. Other sequelae of inhalation may include tightness of the chest, headache, nausea, vomiting, diarrhea, vertigo, weakness, drowsiness, cyanosis, in-coordination, convulsion and/ or coma dependant on the degree of exposure. Any of these may be delayed in onset. Management is supportive and symptomatic.

DIRECTIONS FOR USE

It is a Violation of Federal Law to Use this Product
a Manner Inconsistent with its Labeling

This product is for industrial use only in commercial gas sterilizers designed for use with ethylene oxide. This product should be used only by persons experienced in the use of ethylene oxide / carbon dioxide sterilizing gas mixtures or under the supervision of such an experienced person.

Use this product in accordance with the sterilizer manufacturer's operating instructions for the particular sterilizer and only after reading and understanding Liquid Carbonic's Material Safety Data Sheet for 8.5% Ethylene Oxide / 91.5% Carbon Dioxide. Always check for leaks of the cylinder valve before moving the cylinder into the sterilizing facility. Do not use any oil or grease on valves, regulator, or fittings for delivery of this gas into the sterilizer. Back flow into the container could cause

LIQUID CARBONIC: ETO/CO2 VOL1

DRAFT LABEL: 8.5% ETHYLENE OXIDE & CARBON DIOXIDE STERILIZING GAS
CYLINDER TAG DRAFT (Continuation)

container rupture. Always use a back-flow preventing device in the container discharge piping. Check for leaks after connecting cylinder to sterilizer chamber inlet piping. Container temperature should not exceed 125 degrees F (52 C) during use or storage. Secure the cylinder in an upright position during storage and use. Keep protective valve cap in place when not in use. Use only with closed systems which are rated for the cylinder pressure (750 psig). Close valve after each use and when empty.

Items to be sterilized should be thoroughly cleaned of soil before being sterilized. This product, when used in accordance with the sterilizer manufacturer's operating procedures, will sterilize and/or reduce microbial load on medical and laboratory items, pharmaceuticals, aseptic packaging, whole and ground spices and other processed natural seasoning materials except mixtures to which salt has been added (see 40 CFR 185.2850), cosmetics, and other inanimate objects.

DOT/IMO Shipping Name: Compressed Gas, N.O.S. (Ethylene Oxide,
Carbon Dioxide) UN 1956

EMERGENCY RESPONSE PHONE # (504) 673-8831
CHEMTREC (800) 4242-9300

LIQUID CARBONIC INDUSTRIES CORPORATION
810 Jorie Blvd
Oak Brook, IL 69521-2216

Made in U.S.A

ACCEPTED
with COMMENTS
In EPA Letter Dated:

NOV 12 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the use and
registration under EPA Reg. No.

11491-8

LIQUID CARBONIC: ETO/CO2 VOL1