

# 20% ETHYLENE OXIDE & 80% CARBON DIOXIDE STERILIZING GAS

(CARBON DIOXIDE AND ETHYLENE OXIDE MIXTURE)

UN 1014

RQ 10 LBS./4.54 KG. (FOR ETHYLENE OXIDE)



ACCEPTED

APR 26 1994

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 11491-3

ACTIVE INGREDIENT: ETHYLENE OXIDE (CAS NO. 75-21-8) \_\_\_\_\_

20%

INERT INGREDIENT: CARBON DIOXIDE (CAS NO. 124-38-9) \_\_\_\_\_

80%

100%



KEEP OUT OF REACH OF CHILDREN  
**DANGER! PELIGRO!**



PRECAUCION AL USUARIO: SI USTED NO LEE INGLES, NO USE ESTE PRODUCTO HASTA QUE  
LA ETIQUETA LE HAYA SIDO EXPLICADO AMPLIAMENTE.

## STATEMENT OF PRACTICAL TREATMENT

IF INHALED OR SUSPICION OF INHALATION: Remove person to fresh air, keep warm. If breathing has stopped, 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.

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 contaminated clothing and shoes. Call a physician. Wash clothing before re-use. Discard contaminated shoes.

NOTE TO PHYSICIAN: See attached cylinder tag.

## PRECAUTIONARY STATEMENTS:

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER!** Flammable liquid and gas under pressure. Can form explosive mixture with air. 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. Contains Ethylene Oxide a cancer and reproductive hazard.

### 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 N.P.D.E.S. 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 E.P.A.

### PHYSICAL AND CHEMICAL HAZARDS:

Contents under pressure. Flammable gas. Do not use near flame, electrical sparks or hot surfaces, or allow source of ignition near the fumigated area. Ground all equipment including the cylinder. Back flow into container could cause cylinder rupture. Always use a back flow preventing device in the container discharge piping. Container temperature should not exceed 125°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 in closed systems which are rated for 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.

### STORAGE AND DISPOSAL:

**STORAGE:** Do not store near sources of heat, open flames, or in direct sun. Cylinder storage temperature must not exceed 125°F (52°C). To minimize polymerization of Ethylene Oxide, storage at less ambient temperature is recommended. Do not puncture or drop cylinders.

**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 for handling. Do not attempt disposal of this product without the express direction of Liquid Carbonic.

**CONTAINER DISPOSAL:** Return empty and out-dated cylinders for re-use. Prior to return, check valve for leaks. If leaks are detected, contact supplier.

**DIRECTION FOR USE:** IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. USE IN ACCORDANCE WITH STERILIZER MANUFACTURERS OPERATING INSTRUCTIONS. THIS PRODUCT SHOULD ONLY BE USED BY PERSONS EXPERIENCED IN THE USE OF ETHYLENE OXIDE STERILIZING GAS MIXTURES OR UNDER THE SUPERVISION OF SUCH AN EXPERIENCED PERSON. SEE ATTACHED CYLINDER TAG FOR FURTHER DIRECTIONS FOR USE. USE IN ACCORDANCE WITH THE MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT.

EPA REG. NO. 11491-3

EPA ESTABLISHMENT NUMBER:

11491-CA-1

11491-FL-1

11491-PA-2

11491-CA-2

11941-IL-2

11491-TX-1

NET CONTENT \_\_\_\_\_ lbs.

**FOR INDUSTRIAL AND MEDICAL USE  
IN COMMERCIAL GAS STERILIZERS  
DESIGNED FOR USE WITH ETHYLENE OXIDE**

**EMERGENCY RESPONSE PHONE# (504) 673-8831  
CHEMTREC (800) 424-9300**

**DO NOT REMOVE THIS LABEL**



**LIQUID CARBONIC**

**CYLINDER GAS PRODUCTS**

816 JORIE BOULEVARD OAK BROOK, IL 60451-2216

Made in U.S.A.

Form 03122

Rev. 7/93

LCCO®

THIS TAG CONTAINS ADDITIONAL INFORMATION WHICH IS CONSIDERED AN INTEGRAL PART OF THE LABEL FOR THIS PRODUCT.

**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 OXIDE'S 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 PATIENTS 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, INCOORDINATION, CONVULSION AND/OR COMA DEPENDANT ON THE DEGREE OF EXPOSURE. ANY OF THESE MAY BE DELAYED IN ONSET. MANAGEMENT IS SUPPORTIVE AND SYMPTOMATIC.

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**DIRECTIONS FOR USE:**

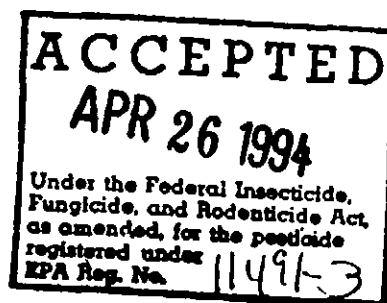
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

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 STERILIZATION OR FUMIGATION USING THIS MIXTURE, OR ARE UNDER THE DIRECT SUPERVISION OF PERSONS WHO ARE EXPERIENCED IN STERILIZATION OR FUMIGATION USING THIS MIXTURE. USE THIS PRODUCT IN ACCORDANCE WITH THE STERILIZER MANUFACTURER'S OPERATING INSTRUCTIONS FOR THE PARTICULAR STERILIZER AND ONLY AFTER READING LIQUID CARBONIC'S MATERIAL SAFETY DATA SHEET FOR 20% ETHYLENE OXIDE/80% 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 CONTAINER RUPTURE. ALWAYS USE A BACK FLOW PREVENTING DEVICE IN THE CONTAINER DISCHARGE PIPING. CHECK FOR LEAKS AFTER CONNECTING CYLINDER TO THE STERILIZER INLET PIPING. CONTAINER TEMPERATURE SHOULD NOT EXCEED

125°F (52°C) DURING STORAGE OR USE. KEEP PROTECTIVE CAP ON WHEN NOT IN USE.

SECURE THE CYLINDER IN AN UPRIGHT POSITION DURING STORAGE AND USE. USE ONLY IN CLOSED SYSTEMS WHICH ARE RATED FOR THE CYLINDER PRESSURE (750 PSIG). CLOSE VALVE AFTER EACH USE AND WHEN EMPTY. GROUND CYLINDERS DURING DISCHARGE TO PREVENT BUILDUP OF STATIC ELECTRICITY.

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) and COSMETICS.



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