

DO NOT REMOVE TAG

ETHYLENE OXIDE 100R
STERILANT-FUMIGANT GAS
DANGER! EXTREMELY FLAMMABLE AND EXPLOSIVE
HARMFUL IF INHALED.

DIRECTIONS FOR USE It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This product may be used to formulate ethylene oxide pesticide products, for use in facilities that meet the requirements of 29 CFR 1910.1047. The ethylene oxide products may be used only in EPA approved or FDA cleared gas-tight or vacuum chambers designed for use with the specific ethylene oxide product. 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. Ethylene oxide is a highly hazardous material and should be used only by personnel trained in its proper use. All persons working with Ethylene oxide 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 ethylene oxide sterilization and fumigation, or by persons under direct supervision of persons who are experienced in ethylene oxide sterilization and fumigation. Use only in accordance with the directions and the safety precautions listed on the label and this tag. See current AlliedSignal Material Safety Data Sheet, OXYF-0001.

STERILIZATION AND FUMIGATION

Ethylene oxide may be safely used only to sterilize medical and laboratory items, pharmaceuticals, aseptic packaging, and reduce microbial load on cosmetics, and whole and ground spices. Items to be sterilized should be thoroughly cleaned of soil before being placed in any type of sterilizer.

GENERAL INSTRUCTIONS

1. Always check container valves and relief valves for leaks before moving cylinder into your facility.
2. This container is equipped with an eductor tube for liquid delivery. If ethylene oxide gas is required, use vaporizing equipment.
3. This container has been pressurized with nitrogen to a pressure of 50 psig (3.52kg/cm²) at 70°F (21.1°C). Vapor pressure will be higher if temperature is above 70°F (21.1°C); lower if temperature is below 70°F (21.1°C). Contact supplier if, upon receipt, container pressure is below 50 psig (3.52kg/cm²) at 70°F (21.1°C).
4. Container must be in an upright position when discharging. Cylinders must be secured to prevent falling over.
5. Liquid withdrawal valve (marked "Liquid") is provided with a CGA 510 connection which has left-hand threads.
6. EOX and SS55 style cylinders and DOT SP drums are also provided with a CGA 580 inert pressurizing valve (marked "Vent") which has right-hand threads. Do not discharge product from the CGA 580 inert pressurizing valve.
7. Remove protective valve plugs and make sure valve threads are undamaged. Do not attach an ordinary pipe fitting to these valves. The connections to the container valves should be brass CGA 510 and CGA 580 connectors. Use of other metals could cause damage to the brass container valves.
8. All other piping and fittings should be steel or stainless steel fittings and piping capable of withstanding the pressure to be encountered. Do not use rubber, plastics, or copper materials. Install relief devices where liquid can be trapped between valves.
9. Ground all equipment, including containers, to avoid static sparks.
10. Use only spark-proof tools.
11. Use only explosion-proof electrical equipment where ethylene oxide may be present.
12. Install check valves in the discharge line from this container to processing equipment to prevent back-flow into the container.
13. Connect the CGA 580 inert pressurizing valve (marked "Vent") to a source of nitrogen using a line equipped with a pressure regulator, safety relief valve and check valve. The source of nitrogen should be used exclusively for ethylene oxide and for no other purpose. Nitrogen pressure must not exceed the service pressure of the container. Never use compressed air or other gases to pressurize the cylinder or drum.
14. To open container valves, turn counterclockwise. The liquid discharge valve is equipped with a handwheel. Do not use a wrench or other leverage device on handwheel. Use a "T" wrench to open the inert pressurizing valve on the EOX and SS55 cylinders and SP drums.

ACCEPTED

MAY 8 1997

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under
 EPA Reg. No. 67470-7

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- 15. Use with adequate general and local ventilation. Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters electrical equipment, static discharges or other ignition sources at location distant from product handling point.
- 16. Determine the quantity of product withdrawn from this container by using and appropriate scale.

STORAGE AND DISPOSAL

Store according to instructions provided on label and this tag. To control ethylene oxide polymer growth, use all sterilant gas on a first-in, first-out basis. A good rule of thumb is to use ethylene oxide within 12 months of the fill date marked on the container (batch number). Do not store outside in direct sunlight. To minimize polymer growth, ethylene oxide should not be stored in any place where the temperature consistently exceeds 100°F. See AlliedSignal Publication "Sterilizer Maintenance and Ethylene Oxide Polymer."

STORE IN AN AREA WITH ADEQUATE VENTILATION

PESTICIDE DISPOSAL

CONTAINER DISPOSAL

Return container to supplier for reuse. Before returning container to supplier:

- A. Pressure container with nitrogen to 50 psig total pressure at 70 °F (21.1°C) and be sure container valves are closed.
- B. Replace valve plugs tightly in valve outlets. If valve plugs are not available, contact supplier.
- C. Check container valves and plugs for leaks prior to shipment. If leaks are detected contact supplier.



ACCEPTED

MAY 8 1997

Under the Federal Insecticide, Fungicide, and Plant Growth Regulator Act, as amended, for the pesticide registered under EPA Reg. No. 67470-7

AlliedSignal
 CHEMICALS
 AlliedSignal Inc.
 101 Columbia Road
 Morristown, NJ 07962-1053

EPA Registration No. 67470-7

STT-0800 (2/97)



ETHYLENE OXIDE 100R

STERILANT-FUMIGANT GAS.

ACTIVE INGREDIENT: ETHYLENE OXIDE 100.0%

KEEP OUT OF REACH OF CHILDREN

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.
DANGER! EXTREMELY FLAMMABLE LIQUID AND GAS UNDER PRESSURE. MAY CAUSE EXPLOSIVE MIXTURES WITH AIR. CAUSES EYE AND SKIN BURNS. HARMFUL IF INHALED. HARMFUL IF 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, light-headed 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

Ethylene oxide is extremely flammable and reactive. Contents under pressure. Keep away from heat, flame, sparks or hot surfaces. Do not allow sources of ignition near the sterilization/fumigation area. 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 attached to valve. Ground all equipment, including containers, to avoid static sparks.

ENVIRONMENTAL HAZARDS

Ethylene oxide is not intended for outdoor use. 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 ALL CASES OF OVEREXPOSURE, GET MEDICAL ATTENTION IMMEDIATELY. TAKE PERSON TO DOCTOR OR EMERGENCY TREATMENT FACILITY AT ONCE.

IF INHALED, remove exposed person to fresh air, keep warm. 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.

IN CASE OF CONTACT, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Aerate,

wash or clean contaminated clothing and discard leather goods.

IF SWALLOWED, give at least two glasses of water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Call a physician.

NOTE TO PHYSICIAN: REFER TO SECTION IV, FIRST AID MEASURES, ALLIEDSIGNAL MATERIAL SAFETY DATA SHEET, OXYF-0001. To obtain MSDS, call 1-201-455-4157.

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

FIRE: Do not extinguish burning gas if flow cannot be shut off immediately. Move container away from fire if without risk. Use water spray or fog nozzle to keep container cool.

IN CASE OF EMERGENCY CALL: 1-201-455-2000
REFER TO TAG FOR COMPLETE USE DIRECTIONS.

BEFORE USING OR HANDLING THIS PRODUCT YOU MUST ALSO READ AND UNDERSTAND THE ALLIEDSIGNAL MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT.

FOR INDUSTRIAL USE ONLY. NOT FOR USE IN HOSPITALS OR HEALTH CARE FACILITIES.

DOT/IMO Shipping Name: Ethylene Oxide

INHALATION HAZARD

US DOT Hazard Class: 2.3

US DOT ID Number: UN 1040

Ethylene Oxide CAS: 75-21-8

EPA Registration No. 67470-7

EPA Establishment No. 67470-AZ-001

AlliedSignal Inc.

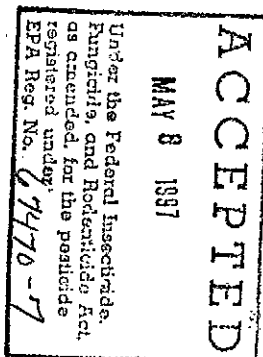
101 Columbia Rd., Morristown, NJ 07962-1053

BATCH-

DO NOT REMOVE THIS LABEL

MADE IN USA

STB-0800 (4/96)



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