

PM 31

10330-3

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APR 01 1988

Union Carbide Corporation
Linde Division
39 Old Ridgebury Road
Danbury, CT 06817-0001

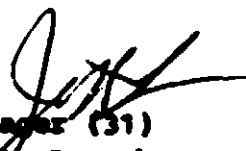
Attention: Algirdas G. Vilkas

Gentlemen:

Subject: Oxyfume 80
EPA Registration No. 10330-3
Your Submission Dated November 24, 1987
EPA Received Date December 2, 1987

The submitted final printed labels have been placed in your product file. They have not been reviewed in accordance with PR Notice 82-2.

Sincerely yours,

John H. Lee 
Product Manager (31)
Disinfectants Branch
Registration Division (TS-767C)

11200:I;Lee:L-15;KEMCO: 3/29/88;4/6/88;CB;WB;VO;EK;CB

CONCURRENCES							
SYMBOL							
DATE							

OXYFUME[®] 80**STERILANT GAS****ACTIVE INGREDIENT-ETHYLENE OXIDE 80% BY WEIGHT.****INERT INGREDIENT-CARBON DIOXIDE 20% BY WEIGHT.****DANGER! EXTREMELY FLAMMABLE LIQUID AND GAS UNDER PRESSURE. MAY FORM EXPLOSIVE MIXTURES WITH AIR. HARMFUL IF INHALED. CAUSES EYE AND SKIN BURNS.****• DANGER: CANCER HAZARD AND REPRODUCTIVE HAZARD.****• OTHER POSSIBLE DELAYED HEALTH EFFECTS** may be nervous system injury, chromosomal changes, and cataracts**• EFFECTS OF OVEREXPOSURE** may be nausea, vomiting, diarrhea, numbness, weakness, loss of muscle coordination, dizziness, drowsiness, convulsions, loss of consciousness, irritation of lungs, delayed lung injury (fluid in lungs), breathing difficulties, blisters on skin, allergic skin reaction

PEL: 1PPM-TWA (ETHYLENE OXIDE) (OSHA-29CFR1910.1047)

ODOR: Ether-like at high concentrations

Keep away from heat, flame and sparks. Do not breathe vapor. Do not get in eyes, on skin or clothing. Use only in a closed system. Store and use with adequate ventilation. No part of the container may be exposed above 125°F (52°C). Close valve when not in use and when empty. Use in accord with tag attached to valve.

FIRST AID: IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. 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.

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: 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 EMERGENCY: Call CHEMTREC 800-424-9300.

BEFORE USING OR HANDLING THIS PRODUCT YOU MUST ALSO READ AND UNDERSTAND LINDE SAFETY PRECAUTIONS BOOKLET FORM L-3499 AND MSDS FORM L-4800.

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

DOT Shipping Name: Compressed Gas N O S UN1954

IMO Shipping Name: Carbon Dioxide and Ethylene Oxide Mixture, UN1041

CAS: 75-21-8 (Ethylene Oxide)

CAS: 124-38-9 (Carbon Dioxide)

EPA Reg. No. 10330-3

EPA Est. No. 10330-

BATCH-

LINDE SPECIALTY GASES

COMPRESSED
GAS N.O.S.
UN1954

OXYFUME® 80

FLAMMABLE
GAS

STERILANT - FUMIGANT GAS
ACTIVE INGREDIENT ETHYLENE OXIDE
80% BY WEIGHT
INERT INGREDIENT CARBON DIOXIDE
20% BY WEIGHT
NET CONTENTS 160 LBS (72.5kg)

EDUCTOR
TUBE

RQ

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UN1954

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EDUCTOR
TUBE

RQ

LINDE SPECIALTY GASES

pm31

10330-3

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DO NOT REMOVE THIS TAG



L-14-110

OXYFUME® 80
STERILANT GAS

ACTIVE INGREDIENT-ETHYLENE OXIDE 80% BY WEIGHT
INERT INGREDIENT-CARBON DIOXIDE 20% BY WEIGHT

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

DANGER-EXTREMELY FLAMMABLE

To be used only by persons experienced in Oxyfume® 80 gas sterilization, or by persons under direct supervision of persons who are experienced in Oxyfume® 80 gas sterilization. Use only in accordance with directions given on this tag and the precautions listed on the body label. See Union Carbide Corporation, Linde Division, Material Safety Data Sheet, Form L-4800, and safe practices booklet L-3499 for additional safety information.

GENERAL INFORMATION

- 1 This cylinder is equipped with an eductor tube and is designed to discharge liquid.
- 2 The approximate vapor pressure exerted by this gas mixture will be 175 psig (1210 kPa) at 70°F (21°C) if no liquid is present. Vapor pressure will be lower if temperature is below 70°F (21°C), higher if temperature is above 70°F (21°C).
- 3 Cylinder must be in an upright position when discharging. Cylinder must be secured to prevent falling over.
- 4 Discharge valve outlet is provided with a CGA 510 connection which has left-hand threads. Make sure valve threads are undamaged. Do not attach ordinary pipe fittings to this valve.
- 5 Use metal (except aluminum) fittings and piping or Teflon-lined tubing, capable of withstanding the pressure to be encountered. Install pressure relief device where liquid can be trapped between valves. Ethylene-propylene rubber and Teflon are suitable materials for gaskets. Ground all equipment, including cylinder, to avoid static sparks.
- 6 Install check valves in the discharge line from this cylinder to processing equipment to prevent back flow into cylinder.
- 7 Open cylinder valve by turning handwheel counterclockwise. Never use a wrench or other leverage device to open or close cylinder valve.

STORAGE AND DISPOSAL

Return cylinder to supplier. Store according to instructions provided on label and this tag.

STERILIZATION

- 1 Use Oxyfume® 80 only in sterilizers designed for use with 80% by weight Ethylene Oxide and 20% by weight Carbon Dioxide.
- 2 Use Oxyfume® 80 in accordance with directions supplied by the sterilizer manufacturer.
- 3 Sterilizer temperature and pressure influence both exposure time and Ethylene Oxide concentration. The variation of type and quantity of material to be sterilized, how packed, size of

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sterilizer, types of bacteria to be killed, and chamber relative humidity also affect the exposure required for sterilization. Gas sterilizer cycle parameters should be those prescribed by the sterilizer manufacturer, if applicable. If other cycle parameters are used, the efficacy of the alternate cycle must be validated and is the responsibility of the user.

4. Aerate sterilized materials before use

MINI-LINE SPECIALTY GASES

Union Carbide Corporation
Linde Division

Danbury, Connecticut 06817-0001

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