15-15-5-5

OXYFUME® 12

STERILANT-FUMIGANT GAS

ACTIVE INGREDIENT ETHYLENE OXIDE 12% BY WEIGHT

INERT INGREDIENT

DICHLORODIFLUOROMETHANE 88% BY WEIGHT

DANGER! NONFLAMMABLE LIQUID AND GAS UNDER PRESSURE. 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. voniting, 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 QXIDE)

(OSHA-29CFR1910 1047)

ODOR: Ether-like at high concentrations

Do not breathe gas. Do not get in eyes, on skin or clothing. Store and use with adequate ventilation. No part of the cylinder 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 white 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. Use self-contained breathing apparatus and protective clothing, and shut off leak if without risk.

FIRE: Use water spray or fog nozzle to keep cylinder cool. Move cylinder away from fire if without risk.

IN EMERGENCY: Call CHEMTREC 800-424-9300

BEFORE USING OR HANDLING THIS PRODUCT YOU MUST ALSO READ AND UNDERSTAND LINDE SAFETY PRECAUTIONS BOCKLET FORM L-3499 AND MSDS FORM L-4799.

FOR HOSPITAL AND INDUSTRIAL USE ONLY

This product contains Chlorofluorocarbon-12

Classified by Underwriters Laboratories, Inc. as to fire hazard only. Oxylume: 12 Sterilant-Fumigant. The product supplied liquefied under pressure is non-flammable at ordinary temperatures, but at

higher temperatures (ignition temperature 463°C. 865°F), is capable of forming weakly combus tible mixtures with air which do not propagate flame throughout the mixture. Control No. 998P.

DOT Shipping Name Compressed Gas N O S UN1956

EPA Reg No 10330-5

EPA Est No 10330-

BATCH-

IMO Shipping Name Compressed Gas. Toxic: N O S UN1955

CAS 75-21-8 (Ethylene Oxide)

CAS 75-71-8 (Dichlorodifluoromethane)

Union Carbide Corporation Linde Division, Danbury, CT 06817

LINDE SPECIALTY GASES:

MADE IN USA

DO NOT REMOVE THIS LABEL

STB-0260 (7/87)

COMPRESSED KOT REVIEWED GASNOS nindamne mist in Motion Elva. UN1956 2-87 OXYFUME. 12 ETERMANT - FUNDRANT BAS ACTIVE INGREDIENT - ETHYLENE OXIDE NON MERT INGREDIENT - DICHLORODIFLUGRO 12% BY WEIGHT FLAMMABLE METHANE BOW BY WEIT AT NET CONTENTS - 5' LBS (24 9Kg) SPECIALTY GASE. CAS. (75-71-8)(75-21-8) COMPRESSED GASNOS C+XFUME. 12 STERILANT FUNDEAUT SAS ROTUNGS ACTIVE INGREDIENT - ETHYLENE OXIDE FLAMMABLE 12% BY WEIGHT MERT INGREDIENT - DICHLOROGIFLUORO-METHANE 88% BY WEIGHT NET CONTENTS - 55 LBS 124 9Kgl SPECIALTY GASES CAS (75-71-8)(75-21-9) COMPRESSED GAS NOS OXYFUME 12 FOUCTOR STERRART - FUNDANT GAS ACTIVE INGREDIENT - ETHYLENE OXIDE INERT INGREDIENT - DICHLORODIFLUORO-NON FLAMMABLE METHANE BOW BY WEIGHT SRECIALTY GASES NET CONTENTS - 55 LBS (24 9Kg) CAS (75-71-8)(75-21-8)

DO NOT REMOVE THIS THO

L-14-102

CXYFUME® 12 STERILANT-FUMIGANT GAS

ACTIVE INGREDIENT-ETHYLENE OXIDE 12% BY WEIGHT INERT INGREDIENT-DICHLORODIFLUOROMETHUNE 86% BY WEIGHT

DIRECTIONS FOR USE

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

To be used only by persons experienced in Onylume® 12 gas startization and furnigation, or by parsons under direct superviaion of persons who are experienced in OxyAume^a 12 gas sterëinstian and furrigation. Use only in accordance with directions given on this tag and the safety precautions listed on the body label. See current Union Carbide Corporation, Linde Division, Material Safety Data Sheet, Form L-4790, and safe practices booklet L-3499 for additional autisty information.

GENERAL INSTRUCTIONS

1. This cylinder is equipped with an eductor tube and is designed to decharge liquid.

2. The approximate vepor pressure exerted by this gas misture will be 60 peig (414 kPa) at 70°F (21.1°C) while liquid is present. Vapor pressure will be lower it temperature (21.1°C); higher if temperature is above 70°F (21.1°C). the will be lower if temperature is below 70°F

3. Cylinder must be in upright position when decharging. Cylinder must be secured to prevent falling over.

4. Discharge valve outlet is provided with a CGA 510 connection.

which has lethend threads. Fernove projective valve plug and make sure valve threads are underraged. Do not attach ordinary pipe fittings to this valve.

metal (except aluminum) fittings and piping or finlen-lined \$1.5 mg, capable of withstanding the pressure to be encom-tered, install pressure utilial device where liquid can be imposed between velves. Ethylene-propylene rubber and tellon are sub-able meterials for gardets.

4. Open cylinder lake by turning handwheel courseclock Never use a wrench or other leverage device to open or close cylinder valve.

7. Replace valve plug tightly in valve outlet before returning container to euroc

STORAGE AND DISPOSAL

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

STERLIZATION

Use Chylume* 12 only in startizers designed for use with 12% by weight Ethylene Oxide and \$6% by weight Dichlorodifuoromethene (Feltgarent 12).
 Use Chylume* 12 in accordance with directions supplied by the

Plear temperature and pressure influence both exposure time and Ethylune Créde concentration. The variation of type and quantity of instantal to be startized, how packed, size of

(Continued on beat)

sterilizer, types of becteris to be killed, and chamber relative interior, types of section to be interested for startization. Humidity also affect the exposure time required for startization. Gas startizar cycle parameters should be those prescribed by the startizar manufacture; if applicable. If other cycle parame-ters are used, the efficacy of the alternate cycle must be val-dated and in the responsibility of the user.

2.87

in starffized materials before use

PLEMICATION

To Committee

10 C -

1. Funigation with Chytume* 12 should be performed in vacuum by gastight chembers designed for use with 12% by weight Ethne Odde and 88% by weight Dichlorodifluoromethene (Patrigerant 12). If vacuum or gestight chambers are not used, precessions must be taken to assure the salety of all potentially oceed personne

2. If Oxylume* 12 is not used in a furrigation chamber, provisions must be made to sesure complete vaporization of the figurated compressed gas by using an appropriately deexchanger or vaporizing nozzle (Linde P/N 201-4080).

Place warning signs around areas where material is being furni-gated. Ventilian edjacent erees.

4. Use self-contained breathing apparatus and protective clothing if personnel are required in an enclosed area during the initial guaring of that area.

5. Variable #

to itemigrated area before entering. Acrate furnigated meterials before use.

A. For chamber furnigation at 70°F (21.1°C) or higher, materials such as furs, clothing, furniture, spices, and natural season-ings, are typically treated with 15 pounds (6.8 Kg) by weight. ings, are typically treated with 15 pounds (6.8 Kg) by weight of Oxyllume* 12 per 1000 cubic feet (28.3 m²) of chamber space for 16 hours. Treatment may not be effective if material is densely peched.

B For transportation equipment, such as planes, railcars, pas-senger cars, and buses, at 70°F (21.1°C) or higher, 10 pounds (4.5 Kg) by weight of Oxylume* 12 is typically used for every 1000 cubic feet (28.3m²) of vehicle space for 5 to 6 hours

FOOD THEATMENT: 21 CFR 180.200

Ethylene cuide may be safely used as a furnigant for the conted of microorganisms and meet intestation in ground spices. and other processed returnl seasoning materials, except mis-tures to which self has been added . . . *

lene cuide, either alone or admixed with cerbon disside (7 dichlorodifuctiomethene, shall be used in amounts not to ceed that required to accomplish the intended technical

SPECIALTY GASES

Union Carbide Corpora Linde Division Danbury, Connecticut 08817

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