OXYFUME® 30

STERILANT-FUMIGANT GAS.

ACTIVE INGREDIENT: ETHYLENE OXIDE INERT INGREDIENT: CARBON DIOXIDE KEEP OUT OF REACH OF CHILDREN

70.0% 100.0%

30.0 %

DANGER **PELIGRO**

PRECAUCION AL USUARIO: Si usted no lee Ingles, no use este producto hasta que la etiqueta la hava 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. DANGERI EXTREMELY FLAMMABLE LIQUID AND GAS UNDER PRESSURE. CAUSES EYE AND SKIN BURNS, HARMFUL IF INHALED, HARMFUL IF SWALLOWED, MAY CAUSE RESPIRATORY AND NERVOUS SYSTEM DAMAGE.

DANGERI CANCER HAZARD AND REPRODUCTIVE

EFFECTS OF OVEREXPOSURE: May be latel if inhaled in high concentrations. May cause irritation of respiratory tract, chest tightness, headache, nausaa, vomiting, diarrhea, light-headed feeling, dizzlness, weakness, drowsiness, cyanosis, loss of coordination, convulsions, coma, delayed lung injury (fluid in lungs), immediate or delayed skin Irritation and bilaters, alteroic

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-29CFR1910,10471

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 ciothing. Store and use with adequate ventilation in accordance with 29 CFR 1910.1047

PHYSICAL AND CHEMICAL HAZARDS

Oxytume 30 is extremely flammable and reactive. Contents under pressure. Keep away from heat, flame, sparks or hot surfaces. On 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, the active ingredient in Oxylume 30, is not intended for outdoor use. Do not discharge affluent 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

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

iedSignal

CHEMICALS

NOTE TO PHYSICIAN: REFER TO SECTION IV. FIRST AID MEASURES, ALLIEDSIGNAL MATERIAL SAFETY DATA SHEET, OXYF-0006. 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 log 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.

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

DOT Shipping Name: Carbon Dioxide and Ethylene Oxide Mixture IMO Shipping Name: Carbon Dioxide and Ethylene Oxide Mixture

US DOT Hazard Class: 2.1 US DOT ID Number: UN 1954 IMO ID Number: UN1041

Ethylene Oxide CAS: 75-21-8 EPA Registration No. 67470-5

Carbon Dloxida CAS: 124-38-9 FPA Establishment No. 67470-AZ-001

AlliedSignal Inc.

101 Columbia Rd., Morristown, NJ 07962-1053

STB-0400 (4/96)

BATCH-

DO NOT REMOVE THIS LABEL

MADE IN USA



DO NOT REMOVE TAG

OXYFUME* 38 STERILANT-FUMIGANT GAS

DANGERI EXTREMELY FLAMMABLE AND EXPLOSIVE HARMFUL IF INHALED.

ARMFUL In INFALED.

DIRECTIONS FOR USE it is a violation of Federal Law to use this product in a manner inconsistent with its labeling. 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. Dayfurme 30 is a highly hazardous material and should be used only by personnel trained in its proper use. All persons working with Oxytume 30 must have knowledge of the hazards of this chamical mixture and must be trained in the proper use of required respirator equipment, morktoring and detection devices, and in the implementation of emergency procedures.

To be used only by persons experienced in Oxylume 30 sterifization and furningation, or by persons under direct supervision of persons who are experienced in Oxylume 30 sterifization and furningation. Use only in accordance with the directions and the safety precautions listed on the label and this tag. See current AlicedSignal Material Safety Data Sheet, OXYF-0005.

STERILIZATION AND FUMIGATION

STEPHILIZATION AND POMOSATION Oxytume 30 may be safely used only to sterifize medical and laboratory items, pharmaceuticals, aseptic packaging, and to reduce microbial load on cosmetics, items to be sterilized should be thoroughly cleaned of soil before being placed in any type of sterilizer.

any type of sterilizer.

Onytume 30 may be used only in facilities that meet the requirements of 29 CFR 1910.1047 in non-portable vacuum or gas-light chambers designed for use with 30.0% ethylene oxide, and 70.0% carbon dioxide. Oxytume 30 may be used only by persons who have been trained in accordance with 29 CFR 1910.1047. When used by healthcare providers to stenilize health care items, Oxytume 30 must be used in non-portable ethylene oxide gas sterilizers that meet FDA regulatory requirements, and in accordance with directions supplied by the sterilizer manufacturer.

NOTE: It is a violation of Federal Law to use Oxyfume 30 Sterllant/Fumigant Gas for the fumigation of beenives, airplanes, trains, buses, ships, trucks, trai-ers, warehouses, or other similar spaces.

- Only furn 30 cycle parameters depend on saveral sterikzing/fumigating variable fectors: preconditioning (if any); exposure time; chamber air concentration; citylene oxide concentration; chamber (emperature; humidity level; types and quantities of items to be sterikzed/fumigated; packaging; load configuration in the chamber; microbial challenge metricd; desired level of sterifity assurance; and the desired performance of the sterikized; fumigated product and package.
- C. The following is a ski of ranges for the critical variables which must be in proper relationship for Coylume 30 to be an effective sterilizing/furnigating agent. This information should be considered general, and not as a replacement for detailed information issued by manufacturers.

TEMPERATURES - 70°F TO 150°F
PRE-VACUUM - typically 25 to 28 inches of mercury. Use vacuums compatible with the products and packages to be sterifized/firmigated.
MOISTURE - relative humbifity of 33°K to 80°K
GAS CONCENTRATION - 250 mg/L to 1500 mg/L (milligrams of ethylene oxide

GAS CONCENTRATION - 250 mg/L to 1500 mg/L (mitigrams of ethylene oxide per liter of chamber volume.)

EXPOSURE TIME - 45 minutes to 20 hours

POST-VACIUMS - 0xytune 30 is removed from the chamber and vented to an appropriate ethylene oxide capture or destruction device.

AERATION - exertite startized/furnigated materials before use. Do not allow any person to enter the chamber or acartison area if such entry will result in exposures to ethylene oxide above the levels established in 29 CFR 1910.1047.

Cycle parameters and post cycle aeration parameters (temperature, time, air flow-rate) can affect residue levels. The user must determine that the parameters chosen result in goods which comply with applicable Federal and State residue requirements. For residual limits of ethylene oxide on drug products and medical products see 21 CFR 201.1 sub-section (d).

D. The sterilization/fumigation cycle parameters should be those prescribed by the sterilizer equipment manufacturer. If other cycle parameters are used, the safety and efficacy of the atternate cycle parameters must be validated and are the responsibility of the user.

NEVER USE PARAMETERS WHICH ALLOW FLAMMABLE MIXTURES OF OXYFUME 30 AND AIR TO ENTER THE CHAMBER

67470-6

THE RESERVE THE PROPERTY OF TH









GENERAL INSTRUCTIONS

1. Always check cylinder valves and relief valves for leaks before moving cylinder into your facility.
2. This cylinder is equipped with an eductor tube for liquid delivery. Use vaporizing equipment to convert the liquid into a gas.
3. The approximate vapor pressure exerted by this gas mixture will be 600 psig higher if temperature is above 70°F (21.1°C); lower if temperature is below 70°F (21.1°C); l

appropriate scale.

STORAGE AND DISPOSAL

STORAGE AND DISPOSAL

Store according to instructions provided on label and this tag. To control ethylene oxide polymer growth, use all steritant gas on a list-in, list-out-basis. A good rule of thumb is to use Oxytune 30 within 12 montrs of the fill date marked on the container (batch number). Do not one outside in direct sunlight. To minimize polymer growth, Oxytune 30 should not be stored in any place where the interperature consistently exceeds 100°F. See AlliedSignal Publication Sterifizer 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: Replace valve plug lightly in valve outlet. If valve plug is not available, contact

Check container valve for leaks prior to shipment. If leaks are detected contact

AlliedSignal

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

EPA Registration No. 67470-4

STT-0400 (4/96)











































