

CAS 75-56-9

UN1280

ACCEPTED
OCT 31 1995
Under Fungicide, Insecticide, and
Rodenticide Act, as amended, for the
pesticide registered under
EPA Reg. No. 47870-1

PROPYLENE OXIDE

ACTIVE INGREDIENT

Propylene Oxide.....100%

This product contains 6.92 lbs of active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN
DANGER

STATEMENT OF PRACTICAL TREATMENT

- IF SWALLOWED:** Call a physician or Poison Control Center. Induce Vomiting. Never give anything by mouth to an unconscious person. **NOTE TO PHYSICIAN:** Possible mucosal damage may contraindicate the use of gastric lavage.
- IF IN EYES:** Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
- IF INHALED:** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. **CALL A PHYSICIAN.**
- IF ON SKIN:** Wash off with soap and water while removing contaminated clothing and shoes. **CALL A PHYSICIAN.**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Manufactured by ABERCO, Inc.
Seabrook MD

Establishment No.

EPA Registration No. 47870-1
CA Registration No. 47870-00001AA

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Net Contents 366 lbs.

PRECAUTIONARY STATEMENTS
HAZARDOUS TO HUMANS
& DOMESTIC ANIMALS
DANGER

CORROSIVE: Causes eye damage and skin burns. Harmful or fatal if swallowed.

DO NOT GET IN EYES: Wear full face shield and vaporproof goggles when opening drums or handling product. Avoid touching gloves or hands to eyes after handling until possible residues are washed off of hands. If liquid does get in eyes flush immediately with water for 15 minutes, seek immediate medical attention.

DO NOT GET ON SKIN OR CLOTHING: Wear protective clothing, rubber gloves, and wash before re-use. Discard contaminated leather shoes. In the event of a splash, spill, or other event which contaminates the skin or clothing, immediately remove contaminated clothing and promptly wash contaminated skin with soap and water. Seek prompt medical attention.

DO NOT BREATHE VAPORS OR FUMES. If the concentration of propylene oxide in the workroom or area exceeds 20 ppm by volume, respiratory protection is mandatory. For respiratory protection, wear a self-contained breathing apparatus of a type jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health or an ambient breathing apparatus.

DRUMS MAY BE UNDER PRESSURE WHEN OPENED. Relieve pressure by slowly opening the small bung in a safe, well-ventilated area, standing up-wind if outdoors and with the barrel between you and the nearest point of air exhaust if indoors. If a hissing sound is heard do not further open the small bung until the hissing sound stops. Continue opening small bung and waiting until any hissing stops. Only when small bung has been completely opened is the pressure to be considered as relieved. See CLOTHING AND EYE PROTECTION section for protective gear that must be worn.

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ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in

EMPTYING DRUMS
Electrically ground drum. The best procedure is to displace the contents with an inert gas. Care must be taken to see that no appreciable pressure is exerted on the drum. A pressure relief device set to several inches of water should be installed on the inert gas line. For details, read brochure "Propylene Oxide" available from this company.

PHYSICAL OR CHEMICAL HAZARDS

EXTREMELY FLAMMABLE

This product is an extreme fire hazard. The flash point is -35 F Tag open Cup and the flammable limits of vapor in air, in percent by volume are 2.1 lower and 38.5 upper. Keep away from heat, sparks, open flame and heated surfaces.

IN CASE OF FIRE, SPILL OR LEAK

FIRE: Use carbon dioxide or dry chemical on small fires and "alcohol" foams on large fires. Water spray may be ineffective, but use water to keep exposed drums cool. In advanced or massive fires, firefighting should be done from a safe distance or a protected location. Wear self-contained breathing apparatus and full protective clothing.

SPILL OR LEAK: Evacuate immediate area of spill or leak. Use SCBA or combination air-supplied respirator / SCBA for entry into affected area to correct problem. Move leaking or damaged cylinders outdoors or to an isolated location away from sources of ignition, observing strict safety precautions. Work upwind if possible. Wash fumigant into soil or cover with soil or other absorbent material. Do not permit entry into spill area by unprotected persons until concentration of propylene oxide is determined to be less than 20 ppm.

DO NOT CONTAMINATE CONTENTS

Hazardous polymerization may occur. Do not allow foreign material to get into this drum, particularly acidic or alkaline materials.

RECEIVED
OCT 31 1995
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 47820

writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

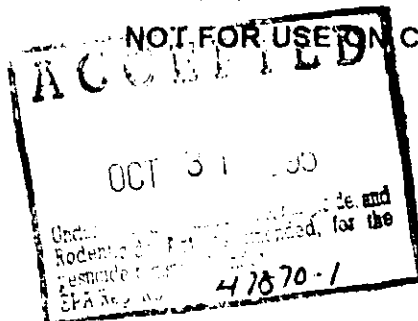
DIRECTIONS FOR USE

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

This fumigant is a highly hazardous material and should only be used by individuals trained in its proper use. Before using, read and follow all label precautions and directions.

All persons working with this fumigant should be knowledgeable of the hazards of this chemical, and trained in the proper use of required respirator equipment and detector devices, emergency procedures, and use of this fumigant.

To aid in the control of microbiological spoilage and as an insecticidal fumigant for the control of stored products' insects. To reduce bacterial and mold contamination in processed spices, cocoa, and processed nutmeats (except peanuts).



PROTECTIVE CLOTHING AND RESPIRATOR USE, AND STORAGE OF TREATED COMMODITIES

CLOTHING AND EYE PROTECTION

When contact with liquid propylene oxide can occur, such as when opening drums or handling leaks or spills, the following protection must be worn: full body protection including solvent proof gloves, clothing, hat, apron, boots, and vaporproof goggles and full face mask if SCBA is not required. Don't re-use contaminated clothing until washed. Discard contaminated leather shoes.

RESPIRATORY PROTECTION

If the concentration of propylene oxide in the working area, as measured by a Drager Multi Gas Detector Pump with Dreger tube #67 28 971-1A (or equivalent) or a Miran 101 Specific Vapor Analyzer (or equivalent - for additional information contact ABERCO), exceeds 20 ppm (4mg/cubic meter), use of a full face self contained breathing apparatus (SCBA) jointly approved by MSHA and NIOSH or an ambient air breathing apparatus is mandatory.

The use of an approved SCBA or ambient air breathing device is also required when the air level of propylene oxide is not known and/or may be elevated such as in emergency entrance, spills, and leaks.

WHEN USED ALONE:

Add product in a vacuum to fumigator retort at not more than 2.4 ounces propylene oxide in vapor form per cubic foot of space in the retort. Temperature should not be in excess of 125 F. Exhaust the retort within four hours and air wash with four chamber volumes of air.

WHEN USED IN COMBINATION WITH AN INERT GAS SUCH AS CARBON DIOXIDE OR NITROGEN:

Propylene oxide may be used in combination with carbon dioxide or nitrogen, which is added to the retort along with propylene oxide. This reduces the flammability of the gases in the retort and increases the efficiency of heat transfer to the items being treated. The approved mixture is 8% propylene oxide and 92% inert gas. This can be obtained by adding propylene oxide, in a vacuum, to the retort at not more than 0.2 ounces per cubic foot of space in the retort. Carbon dioxide or nitrogen may then be added to restore ambient pressure, taking care not to vent propylene oxide during addition of the inert gas. When this mixture is used, the treatment time may be extended to up to 48 hours. The temperature should not be in excess of 125 F. After treatment, exhaust the retort and air wash with four chamber volumes of air.

AERATION AND RE-ENTRY

After fumigation, treated areas must be aerated until the level of propylene oxide is below 20 ppm. Do not allow entry into the treated area by any person before this time unless provided with an MSHA/NIOSH approved SCBA.

PLACARDING

The applicator must placard or post all entrances to the fumigated area with signs bearing:

1. The signal word "DANGER" and the skull and crossbones symbol.
2. The statement "Area under fumigation. DO NOT ENTER".
3. Date of fumigation.
4. Name of fumigant used.
5. Name, address, and telephone number of the applicator.

Do not remove a placard until the treated space is completely aerated. To determine whether aeration is complete, each fumigated site must be monitored and shown to contain less than 20 ppm propylene oxide inside. If less than 20 ppm propylene oxide is detected, the placard may be removed.