



# CARBON DIOXIDE



ACTIVE INGREDIENTS: CARBON DIOXIDE - 99.95%  
 INERT INGREDIENTS: (N.M.F.O) - 0.05%  
 100.00%

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**EXPOSURE MAY CAUSE SUFFOCATION & DEATH**

STATEMENT OF PRACTICAL TREATMENT

If inhaled: Remove to fresh air immediately; keep victim lying down and warm. If breathing is difficult, give oxygen. Call physician immediately.

PRECAUTIONARY STATEMENTS

**WARNING:** Exposure may result in suffocation or death. CO<sub>2</sub> is 1.5 times heavier than air. Work spaces under and adjacent to treatment areas should be monitored carefully. The USDA has set a limit of 0.5% maximum CO<sub>2</sub> concentration in work areas. Ventilate all use areas before entering. Keep available a self-contained breathing apparatus of the appropriate type of short term emergency use.

FUMIGATION DIRECTIONS

STORAGES

Purge bin to 60% Atmosphere. We recommend two day treatment for adult kill, four days for all life stages. For specific flows, contact qualified Liquid Carbonic or fumigation engineer.

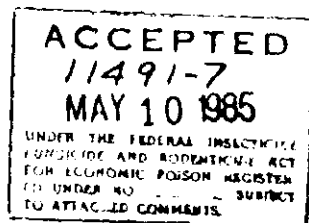
TRUCKS & TRAILERS

Treat as above. Do not move Truck or Trailer during treatment. They must be aerated before movement is allowed.

STORAGE & DISPOSAL

The Liquid Carbonic storage unit meets all applicable A.S.M.E. and C.C.A. codes. For service, call Liquid Carbonic. Do not tamper with storage equipment. Contents under pressure. Follow C.C.A. suggested procedures for handling low-pressure gases. Dispose by venting to open area. For more detailed recommendations contact Liquid Carbonic.

REGISTRATION NO. 11491-7



DIRECTIONS FOR USE

**NOTE:** It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For specific information on dosages, uses, procedures, insect problems or safety precautions, please consult Liquid Carbonic, Chicago, Illinois. This fumigant may be used for the fumigation of Raw and Processed agricultural commodities in storages, ships and sealed railroad cars. Do not fumigate if grain temperature is low (less than 40°F). Area should be as gas tight as possible before treatment. Maintain as near to 60% CO<sub>2</sub> as possible. Four day treatment is recommended. Ventilate use areas before entering.

Fumigated areas must be placarded on all entrances with signs containing at least the signal word DANGER and the "Skull & Crossbones" and the words "Area under fumigation, do not enter until completely aerated", the date of fumigation, name of the fumigant used, emergency telephone number for contact, and the name and address of the fumigator. Do not remove warning signs until the fumigated area is completely aerated and safe for entry, as indicated by suitable detector.

SHIPBOARD, INTRANSIT SHIP OR SHIPHOLD FUMIGATION

IMPORTANT

Shipboard intransit ship or shiphold fumigation is also governed by U. S. Coast Guard Regulations. Refer to and comply with these regulations prior to fumigation.

PROCEDURES

PREFUMIGATION PROCEDURES

1. Prior to fumigating a vessel for intransit cargo fumigation, the master of the vessel or his representative and the fumigator must determine whether the vessel is suitably designed and configured so as to allow for safe occupancy by the ship's crew throughout the duration of the fumigation. If it is determined that the design and configuration of the vessel does not allow for safe occupancy by the ship's crew throughout the duration of the fumigation, then the vessel will not be fumigated unless all crew members are removed from the vessel. The crew members will not be allowed to reoccupy the vessel until the vessel has been properly aerated and a determination has been made by the master of the vessel and the fumigator that the vessel is safe for occupancy.

2. The person responsible for the fumigation must notify the master of the vessel, or his representative, of the requirements relating to personal protection equipment, detection equipment and that a person qualified in the use of the equipment must accompany the vessel with cargo under fumigation. Emergency procedures, cargo ventilation, periodic monitoring and inspection, and first aid measures must be discussed with, and understood by, the master of the vessel or his representative.

3. During the fumigation or until a manned vessel leaves port or the cargo is aerated, the person in charge of the fumigation shall insure that a qualified person using gas or vapor detection equipment tests spaces adjacent to spaces containing fumigated cargo and all regularly occupied spaces for fumigant leakage. If leakage of the fumigant is detected, the person in charge of the fumigation shall take action to correct the leakage, or shall inform the master of the vessel, or his representative, of the leakage so that corrective action can be taken.

4. If the fumigation is not completed and the vessel aerated before the manned vessel leaves port, the person in charge of the vessel shall insure that at least two units of personal protection equipment and one gas or vapor detection device, and a person qualified in their operation be on board the vessel during the voyage.

PRECAUTIONS AND PROCEDURES DURING VOYAGE

Using appropriate gas detection equipment, monitor spaces adjacent to areas containing fumigated cargo and all regularly occupied areas for fumigant leakage. If leakage is detected, the area should be evacuated of all personnel, ventilated, and action taken to correct the leakage, before allowing the area to be occupied. Do not enter fumigated areas except under emergency conditions. If necessary to enter a fumigated area, appropriate personal protection equipment must be used. Never enter fumigated areas alone. At least one other person, wearing personal protection equipment, should be available to assist in case of emergency.

PRECAUTIONS AND PROCEDURES DURING DISCHARGE

If necessary to enter hold prior to discharge, test spaces directly above grain surface for fumigant concentration, using appropriate gas detection and personal safety equipment. Do not allow entry to fumigated areas without personal safety equipment unless fumigant concentrations are at safe levels, as indicated by a suitable detector.

"Personal protection equipment means a gas mask or respirator for the fumigant, jointly approved by the Mining Enforcement and Safety Administration and the National Institute of Occupational Safety and Health".

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