

# HILCOFUME 75

## A FUMIGANT FOR CONTROLLING INSECT PESTS IN STORED GRAIN

Active Ingredients ..... 100.0% Ethylene Dichloride ..... 70.2% Carbon Tetrachloride ..... 29.8%

**FOR USE IN LARGE GRAIN ELEVATORS:** DOSAGE—It is recommended that Hilcofume 75 be applied at the rate of 4 gallons per 1000 bushels, except for top and bottom drafts where double this dosage is desirable.

**APPLICATION:** The treatment of grain in large terminal elevators is suggested when the grain is first put in or whenever the presence of insects is evident. This may be accomplished at practically any time of year as long as the temperature of the grain is 60° F. or above. The usual procedure is to apply HILCOFUME 75 to the grain as it is being put into the bin or turned from one bin to another. The necessary amounts of fumigant are poured or pumped into the bins between the drafts.

**FOR USE IN FARM GRAINERIES:** Level Grain Surface—it is essential that the grain surface be level and at least 6 inches below the sides of the bin, if the desired results are to be obtained. Sloping grain surfaces result in uneven distribution of the fumigant.

**Break Up Moldy Layers**—in heavily infested grain bins, a damp moldy layer may extend from an inch to several feet below the surface. This layer will prevent proper penetration of the fumigant unless it is well broken up in advance of this application. If this layer is sprouting and very solid, it should be removed before the surface is stirred.

**DOSAGE REQUIRED:** The dosage required for an effective insect kill will vary with the tightness of the bin, the type of grain, the volume of the grain involved and the grain temperature. The temperature of the grain should be 60° F. The following dosages of HILCOFUME 75 when properly applied to the surface of the grain, may be expected to penetrate to the bottom of all ordinary farm bins for effective control of insect infestation.

RECOMMENDED DOSAGES FOR GRAINS IN VARIOUS STORAGES			
Grain Temperatures should be 60° F. or higher			
Types of Storage	Gallons Hilcofume 75 per 1000 bushels*		
	Wheat, Rye, Barley	Corn, Oats	Grain Sorghums
Wooden Bins Flat Storage	6	7	10
Steel and Concrete Bins	5	6	8
Wooden Cribbed Bins Elevator Storage	4	6	10
Steel and Concrete Bins	3	5	7
Gallons Hilcofume 75 per Box Car			
Box Cars of Average Conditions and Load	6	9	14

\*Note: On less-than-1000-bushel lots, use the same dosage as recommended for 1000 bushels. With very small lots, wet the entire surface with fumigant.

ACCEPTED  
9-3-71  
402-54

**APPLICATION:** Any method of application should have as its purpose an even distribution of the liquid fumigant over the surface of the grain. It is recommended that the fumigant be applied from outside the bin in order to avoid breathing the fumes. This can be done by spraying through a length of 1/2 inch pipe without a nozzle. After the fumigant has been applied, the bin should be closed up as tightly as possible and the grain left undisturbed for at least three (3) days.

D A N G E R

POISON

KEEP OUT OF REACH OF CHILDREN  
HAZARDOUS VAPOR AND LIQUID  
MAY BE FATAL IF INHALED OR SWALLOWED  
MAY CAUSE EYE IRRITATION

USE ONLY WITH ADEQUATE VENTILATION  
DO NOT BREATHE VAPOR • DO NOT TAKE INTERNALLY  
WHEN NECESSARY, USE GAS MASK  
SUITABLE FOR ORGANIC VAPORS

POISON

In case of skin contact, wash with soap and water. For eyes, flush with plenty of water for at least 15 minutes and get medical attention. Remove and wash clothing before re-use. Do not wear shoes until free of all chemical odor.

If illness results from inhalation, remove to fresh air and call a physician. If swallowed, call a physician. Induce vomiting by giving an emetic such as 2 tablespoons of salt in a glass of warm water.

Do not use fumigated material or feed it to livestock until aeration has eliminated the odor of the fumigant. Avoid contact with flame or hot surface.

SEE LOCAL AGRICULTURAL AUTHORITIES FOR GENERAL INFORMATION

**NOTE:** Do not use containers or handling equipment of aluminum, magnesium, or their alloys, as under certain conditions HILCOFUME 75 may be severely corrosive to such metals. Partial evaporation leaves a flammable liquid. Before re-use, drain drum carefully and allow any remaining contents to evaporate completely or have drum decontaminated by a commercial drum conditioner.

**STORE IN A TIGHTLY CLOSED CONTAINER, IN A COOL LOCATION AWAY FROM DWELLINGS. KEEP FUMIGANT PROPERLY LABELED.**

USDA Rea. No.: 402-54

Net Contents.....

# HILCOFUME 75

## A FUMIGANT FOR CONTROLLING INSECT PESTS IN STORED GRAIN

Active Ingredients .....100.0% Ethylene Dichloride ..... 70.2% Carbon Tetrachloride ..... 29.8%

**FOR USE IN LARGE GRAIN ELEVATORS: DOSAGE**—It is recommended that Hilcofume 75 be applied at the rate of 4 gallons per 1000 bushels, except for top and bottom drafts where double this dosage is desirable.

**APPLICATION:** The treatment of grain in large terminal elevators is suggested when the grain is first put in or whenever the presence of insects is evident. This may be accomplished at practically any time of year as long as the temperature of the grain is 60° F. or above. The usual procedure is to apply HILCOFUME 75 to the grain as it is being put into the bin or turned from one bin to another. The necessary amounts of fumigant are poured or pumped into the bins between the drafts.

**FOR USE IN FARM GRAINERIES: Level Grain Surface**—it is essential that the grain surface be level and at least 6 inches below the sides of the bin, if the desired results are to be obtained. Sloping grain surfaces result in uneven distribution of the fumigant.

**Break Up Moldy Layers**—in heavily infested grain bins, a damp moldy layer may extend from an inch to several feet below the surface. This layer will prevent proper penetration of the fumigant unless it is well broken up in advance of this application. If this layer is sprouting and very solid, it should be removed before the surface is stirred.

**DOSAGE REQUIRED:** The dosage required for an effective insect kill will vary with the tightness of the bin, the type of grain, the volume of the grain involved and the grain temperature. The temperature of the grain should be 60° F. The following dosages of HILCOFUME 75 when properly applied to the surface of the grain, may be expected to penetrate to the bottom of all ordinary farm bins for effective control of insect infestation.

### RECOMMENDED DOSAGES FOR GRAINS IN VARIOUS STORAGE

Grain Temperatures should be 60° F. or higher

Types of Storage	Gallons Hilcofume 75 per 1000 bushels*		
	Wheat, Rye, Barley	Corn, Oats	Grain Sorghums
Wooden Bins Flat Storage	6	7	10
Steel and Concrete Bins	5	6	8
Wooden Cribbed Bins Elevator Storage	4	5	10
Steel and Concrete Bins	3	5	7
Box Cars of Average Conditions and Load	Gallons Hilcofume 75 per Box Car		
	6	9	14

\*Note: On less-than-1000-bushel lots, use the same dosage as recommended for 1000 bushels. With very small lots, wet the entire surface with fumigant.

**APPLICATION:** Any method of application should have as its purpose an even distribution of the liquid fumigant over the surface of the grain. It is recommended that the fumigant be applied from outside the bin in order to avoid breathing the fumes. This can be done by spraying through a length of 1/8 inch pipe without a nozzle. After the fumigant has been applied, the bin should be closed up as tightly as possible and the grain left undisturbed for at least three (3) days.

ACCEPTED  
 9-3-71  
 U.S. DEPARTMENT OF AGRICULTURE  
 FEDERAL INSECT PEST CONTROL  
 ADMINISTRATION  
 402-54  
 COMMENTS:

**D A N G E R**

**POISON**      **KEEP OUT OF REACH OF CHILDREN**      **POISON**