

Label Copy
DOWFUME 75
December 22, 1975
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USE ONLY WITH ADEQUATE VENTILATION
DO NOT BREATHE VAPOR • DO NOT TAKE INTERNALLY
WHEN NECESSARY, USE GAS MASK
SUITABLE FOR ORGANIC VAPORS
DO NOT SMOKE WHILE HANDLING

First Aid 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 tablespoonfuls of salt in a glass of warm water.

To prevent thermal decomposition avoid contact with flame or hot surfaces. Thermal decomposition may form highly poisonous phosgene gas.

Do not store near food or feed.

NOTE: Do not use containers or handling equipment of aluminum, magnesium, or their alloys, as under certain conditions DOWFUME 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 reconditioner.

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

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NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

THE DOW CHEMICAL COMPANY

AND SUBSIDIARIES

MIDLAND, MICHIGAN 48846, USA — ZÜRICH, SWITZERLAND — HONG KONG, B. C.

CORAL GABLES, FLORIDA 33134, USA — SARNIA, ONTARIO, CANADA

* TRADEMARK OF THE DOW CHEMICAL COMPANY



DOWFUME[®] EB-5[®]

Active Ingredients 100%

Carbon Tetrachloride 64%; Ethylene Dichloride 29%; Ethylene Dibromide 7%

U.S.D.A. Registration No. 464-097

GENERAL INFORMATION AND SAFETY PRECAUTIONS

The successful use of liquid grain fumigants depends upon several details: (1) All grain storages should be tightly built. Before applying the fumigant, seal the structure as gas-tight as possible, especially below the surface of the grain. (2) Have the grain surface level and no higher than six inches below the top of the bin sides. (3) Apply the fumigant in a safe manner, from **outside** the building if at all possible. During actual application, **always** have someone on hand to help in case of accident. Have him stand outside where he can see the man working inside. If it is necessary to enter a large bin for application or to enter an area already under fumigation, wear a **suitable gas mask**, such as a full-face mask with a FRESH black canister for organic vapors. (4) In general, fumigant should be applied with a hand or power sprayer. Replace the nozzle with a tube or pipe flattened at the end to give a broad, coarse stream. (5) For best results do not disturb stored grain for at least 3 days and preferably 1 week after treatment. (6) Do not fumigate oftener or at higher dosages than recommended here. (7) Best results are obtained during cool, calm periods of the day, since high air temperatures and strong winds increase vaporization and loss of the fumigant.

In fumigating, the temperature of the grain itself is important, rather than the temperature of the air outside the grain mass. It is not advisable to fumigate grains other than rice when the average grain temperature is below 60° F. Even with rice, it is better to fumigate when grain temperature is above 60° F., since at lower temperatures the insects are relatively inactive, and the fumigant is less effective because of its reduced volatility. Several methods are available for determining grain temperature. Consult your dealer or other authorities for suggestions.

NOTE: For better insect control, spray the inside of the bin with a grain bin insecticide one week before filling. Spray the outside of the bin just before fumigation.

DIRECTIONS

FARM STORAGE: Fumigate farm-stored grain with Dowfume EB-5 within six weeks after putting it into storage. If the grain is held into a second season, re-treatment may be required after the onset of warm weather following winter storage. Follow the suggestions given under GENERAL INFORMATION. For a **single** fumigation, if there is **standing headroom** in the bin, the fumigant may be applied by pouring it over the grain surface directly from the can, **but** if this requires more than 5 minutes or if more than one bin is treated on the same day, **use a gas mask. Avoid prolonged or repeated exposure to fumigant vapors.**

FLAT STORAGE: Large flat storages such as quonset huts should be treated with power equipment. Speed of application and observance of above safety precautions are essential in this type of fumigation.

ELEVATOR STORAGE: Fumigate grain with Dowfume EB-5 when it is being put into the bin or being turned. The fumigant may be pumped or poured from outside over

the grain between drafts, which should not exceed 15-foot depths in the bin. Give double dosages to top and bottom drafts. Under conditions of long storage or intense insect attack, retreatment may be necessary. Need may be determined by observation of live insects and by overheating of grain because of insect activity.

BOX CARS: Apply Dowfume EB-5 from outside the doorway of the car (or wear a gas mask), using hand or power sprayer with special pipe nozzle. Close and seal doors immediately. For best results, do not move the car for at least 12 hours.

BULK CERTIFIED OR HYBRID SEED GRAIN: Bulk seed grain may be fumigated by strict adherence to dosage recommendations, and by observing the following precautions to avoid damage and loss of seed viability: (1) The moisture content of the seed must be less than 12% and preferably less than 10%. (2) The seed temperature during the exposure period should be between 65° F. and 85° F. (3) The fumigant exposure period should be not more than 24 hours, and provision must be made to remove the fumigant by aeration immediately after the 24 hour exposure. This may be accomplished in tight structures by the use of aeration fans, and in loosely constructed storages by breaking all seals applied when preparing for fumigation. Do **not** fumigate low viability seed, as germination may be further reduced. See Safety Precautions.

RECOMMENDED DOSAGES

Grain Temperature 60° F. or Higher

Grain Temperature 60° F. or Higher	Types of Storage	Wheat,	Corn,	Grain
		Rye, Barley	Oats	Scrghums
		Gallons per 1000 Bushels:		
Farm Storage	Wooden Bins	4	6	8
	Steel Bins	3	5	7
Flat Storage	Wooden Bins	4	6	8
	Steel and Concrete Bins	3	5	7
Elevator Storage	Wooden Cribbed Bins	3	6	8
	Steel and Concrete Bins	2	4	6
		Gallons per Box Car		
Box Cars	Average Condition and Load	5	8	12

Note: For lots of 500 to 1000 bushels, use the same dosage as recommended for 1000 bushels. With smaller lots, thoroughly wet the entire surface with fumigant.

RICE: For farm-stored rice, use 4 gallons of Dowfume EB-5 per 1000 bushels if average grain temperature is 75° F. or above. If temperature is between 60° F. and 75° F., use 6 gallons per 1000 bushels. If necessary to fumigate when grain temperature is below 60° F., use 8 gallons per 1000 bushels. **For rice stored in large elevators,** reduce dosage by about one-third. See Safety Precautions.

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FUMIGANT EB-5

EFFECTIVE GRAIN FUMIGANT

Kills all stages of granary weevil, riceweevil, cadelle, angoumous grain moth, saw-tooth grain beetle, and certain other insects.

Consult your State Agricultural Experiment Station or Extension Service Specialists for local general information.

NOTE: Do not use containers or handling equipment of aluminum, magnesium, or their alloys, as under certain conditions Dowfume EB-5 may be severely corrosive to such metals.

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

DANGER

KEEP OUT OF REACH OF CHILDREN
HAZARDOUS VAPOR AND LIQUID
MAY BE FATAL IF INHALED OR SWALLOWED
CAUSES SKIN IRRITATION AND BLISTERS
ON PROLONGED CONTACT • MAY CAUSE EYE IRRITATION

USE ONLY WITH ADEQUATE VENTILATION
DO NOT BREATHE VAPOR • DO NOT TAKE INTERNALLY
AVOID CONTACT WITH EYES, SKIN AND CLOTHING
WHEN NECESSARY, USE GAS MASK SUITABLE FOR ORGANIC VAPORS

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 table-spoonfuls 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.

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Dowfume EB-5 is classified by Underwriter's Laboratories as nonflammable.



THE DOW CHEMICAL COMPANY

MIDLAND, MICHIGAN

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