

SULFURYL FLUORIDE FUMIGANT

FOR CONTROL OF STRUCTURAL AND HOUSEHOLD PESTS

DRYWOOD TERMITES, LYCTUS (OR POWDER POST) BEETLES, OLD-HOUSE BORER,
DEATH WATCH BEETLE, BEDBUGS AND CLOTHES MOTHS.

FOR USE ONLY BY PROFESSIONAL FUMIGATORS

ACTIVE INGREDIENT:	
SULFURYL FLUORIDE	99%
INERT INGREDIENTS:	1%
TOTAL	100%

USE SULFURYL FLUORIDE FOR STRUCTURAL FUMIGATION TO CONTROL
INSECT INFESTATIONS IN DWELLINGS, GARAGES, BARNs, STORAGE BUILDINGS
AND OTHER STRUCTURES CONTAINING MATERIALS INFESTED WITH THESE
PESTS.

WHEN FUMIGATING OBSERVE LOCAL RULES AND REGULATIONS INCLUDING
REGULATIONS GOVERNING ODORIZATION OF TREATED AREAS.

EPA REG. NO. 2749-272

NET CONTENTS

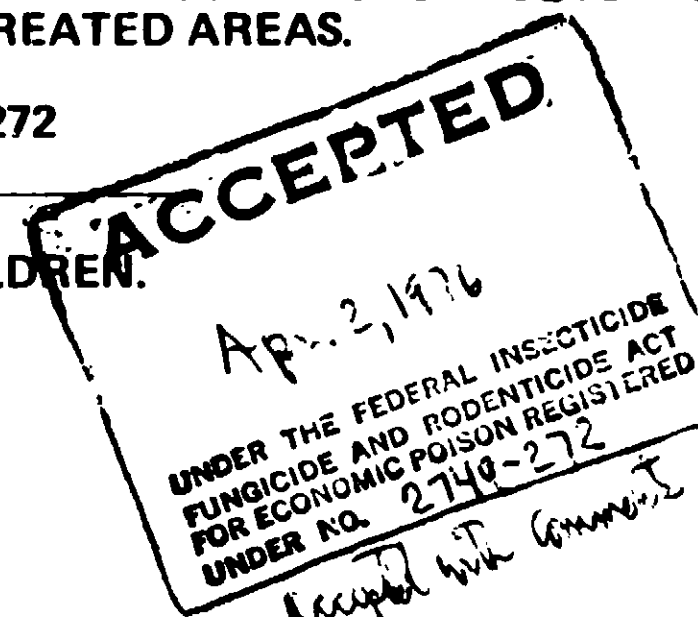
DANGER: KEEP OUT OF REACH OF CHILDREN.

DANGER

POISON



POISON



MAY BE POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH THE
SKIN. DO NOT BREATHE GAS. USE WITH ADEQUATE VENTILATION AND PRO-
TECTIVE CLOTHING. AVOID CONTACT WITH EYES, SKIN, NOSE AND THROAT.
IN CASE OF CONTACT, WASH THOROUGHLY WITH SOAP AND WATER. WASH
CONTAMINATED CLOTHING WITH SOAP AND HOT WATER BEFORE REUSE.

FIRST AID: SEND FOR A DOCTOR IN CASE OF ACCIDENT. IF A PERSON SHOULD
BE OVERCOME FROM BREATHING THIS GAS, PLACE PATIENT IN FRESH AIR,
FACE DOWNWARD, WITH HEAD SLIGHTLY BELOW LEVEL OF LUNGS. KEEP
WARM. IF BREATHING STOPS, GIVE ARTIFICIAL RESPIRATION.

NOTE TO PHYSICIAN: FIRST SYMPTOMS EXPECTED ARE THOSE OF RESPIRA-
TORY IRRITATION AND CENTRAL NERVOUS SYSTEM DEPRESSION; EXCITA-
TION MAY FOLLOW. TREAT SYMPTOMATICALLY.

RESPIRATORY PROTECTION: IF IT IS NECESSARY TO ENTER AN AREA UNDER
FUMIGATION WITH SULFURYL FLUORIDE, CERTAIN ACID GAS CANISTERS MAY
BE USED FOR LIMITED PERIODS OF TIME.

Manufacturer	Size	Designation	EFFECTIVE PROTECTION TIME		
			1/4 lb./ 1000 cu. ft.	1 lb./ 1000 cu. ft.	2 lbs./ 1000 cu. ft.
Acme ①	Large	084-AG	2 Hours	15 Minutes	No
Acme ①	Large	084-AGK	2 Hours	15 Minutes	No
Davis ②	Large	OC-2 (Cat. No. 3237)	2 Hours	15 Minutes	No
MSA ③	Industrial	GMV (Part No. 87081)	2 Hours	15 Minutes	No
MSA ③	Large	GMV-SS (Part No. 87080)	2 Hours	2 Hours	15 Minutes

①Acme Protection Equipment Company ②Davis Emergency Equipment Company ③Mine Safety Appliance Company

Before using any other make or brand of canister, consult the Aceto Chemical Co., Inc. to be certain the
canister is effective against SULFURYL FLUORIDE.

For higher concentrations of SULFURYL FLUORIDE or for longer periods of time, use air-supplied
breathing apparatus.

Do not use any canister longer than 2 hours, even when used at lower concentrations or in fresh air.
Do not contaminate or store near feed or foodstuffs.

DIRECTIONS FOR USE

PREPARATION FOR FUMIGATION: Remove from the structure to be fumigated, all persons, domestic
animals, pets-including goldfish, and desirable growing plants. Food and medicinals not in sealed glass or
metal containers must be either a) removed from the building, b) placed in polyethylene plastic bags of 4
mil or greater thickness and sealed with masking tape or clamps or c) placed in refrigerator or freezer with
the door cracks sealed completely with masking tape. Extinguish all flames, including pilot lights. Open
doors between rooms and off hallways, and openings into crawl spaces of attics and sub-floors. For con-
trol of fabric pests open storage chests, drawers, and closets. Provide for forced air circulation of the
fumigant during the application period.

For masonry or metal structures, seal all cracks and other air leaks with caulking material or tape, and seal
cracks around doors, windows, vents and other openings. Wooden structures and others that cannot be
readily sealed may be completely enveloped with an impervious tarpaulin material such as 4 mil poly-
ethylene sheeting. To prevent escape of gas through the soil and to avoid injury to nearby plants, wet the
soil to a depth of six inches for a distance of one foot outward from the edge of the cover. Seal securely
all sheeting seams, and seal the lower edges of the cover to the ground with moist soil or with sand or
water "snakes."

In cold weather it is recommended the air temperature within the building be warmed to at least 55° F be-
fore introducing the fumigant.

WARNING AGENT FOR USE IN CLEARING STRUCTURES PRIOR TO FUMIGATION:

AFTER PREPARING THE STRUCTURE FOR FUMIGATION AND SEALING EXCEPT FOR ONE
entrance, place a handful of cotton in a shallow dish and set the dish in the air stream of an electric fan.
Pour chloropicrin over the cotton. Use 1 ounce per 10,000 to 15,000 cubic feet of space to be fumigated.
Seal the last opening to the building and start the fan. Check for leaks. Five to ten minutes later introduce
the SULFURYL FLUORIDE.

DOSAGE AND EXPOSURE: For general fumigation to control drywood termites, the FUMIGUIDE
calculator is recommended for the coordination of fumigant rates with temperature, exposure and a
fumigant concentration loss rate measured as half-loss-time (HLT). The use of the FUMIGUIDE B calcu-
lator is recommended for coordination of fumigant rates with temperature, a 20 to 24 hour exposure
period and an estimated half-loss-time (HLT). For general fumigation to control lyctus or powder post
beetle and death watch beetle-use 10 times the amount of SULFURYL FLUORIDE as required for dry-
wood termite control as determined by use of the FUMIGUIDE calculator or the FUMIGUIDE B calcu-
lator. For specific control of bedbugs-use 2 times the amount; for old-house borer-use 4 times the amount,
and for clothes moths-use 6 times the amount of SULFURYL FLUORIDE recommended for control of
drywood termites.

RELEASING THE FUMIGANT: Release the fumigant from outside the structure. Lead it from the
shipping cylinder into an open space in the building through a suitable leak-proof tube. One-quarter
inch copper or polypropylene tubing or polyethylene tubing of at least 62 mil wall thickness is satis-
factory. Direct the fumigant into the blast of air from a fan. Run the fan during application and for 30
minutes after application is finished. For an average structure, the entire amount may be released in one
place, but for large or complex structures release it at two or more locations so chosen as to ensure even
distribution of the gas. To prevent corrosion, avoid applying gas directly to metal surfaces.

AERATION: At the end of the exposure period, remove all seals and open all doors and windows. Use
ventilation fans to remove fumigant from dead air pockets. Do not reoccupy building until aeration is

INERT INGREDIENTS:

TOTAL

**1%
100%**

USE SULFURYL FLUORIDE FOR STRUCTURAL FUMIGATION TO CONTROL INSECT INFESTATIONS IN DWELLINGS, GARAGES, BARNs, STORAGE BUILDINGS AND OTHER STRUCTURES CONTAINING MATERIALS INFESTED WITH THESE PESTS.

WHEN FUMIGATING OBSERVE LOCAL RULES AND REGULATIONS INCLUDING REGULATIONS GOVERNING ODORIZATION OF TREATED AREAS.

EPA REG. NO. 2749-272

NET CONTENTS

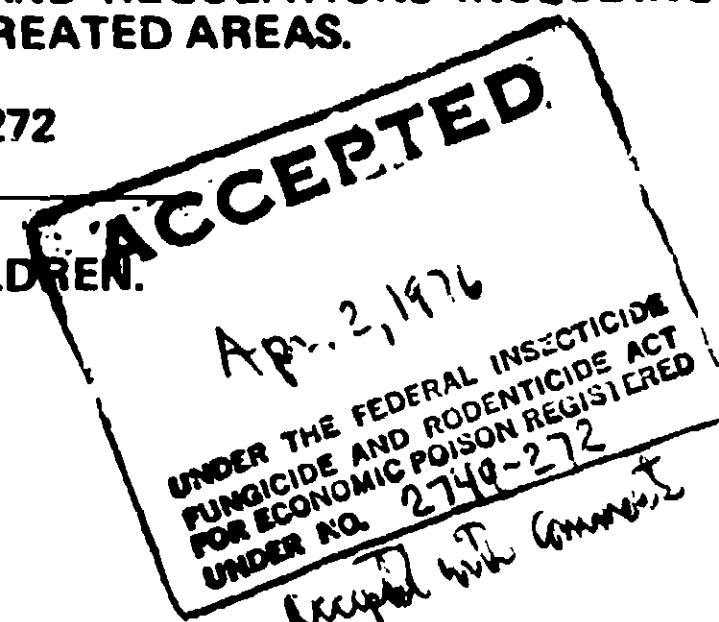
DANGER: KEEP OUT OF REACH OF CHILDREN.

DANGER

POISON



POISON



MAY BE POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. DO NOT BREATHE GAS. USE WITH ADEQUATE VENTILATION AND PROTECTIVE CLOTHING. AVOID CONTACT WITH EYES, SKIN, NOSE AND THROAT. IN CASE OF CONTACT, WASH THOROUGHLY WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING WITH SOAP AND HOT WATER BEFORE REUSE.

FIRST AID: SEND FOR A DOCTOR IN CASE OF ACCIDENT. IF A PERSON SHOULD BE OVERCOME FROM BREATHING THIS GAS, PLACE PATIENT IN FRESH AIR, FACE DOWNWARD, WITH HEAD SLIGHTLY BELOW LEVEL OF LUNGS. KEEP WARM. IF BREATHING STOPS, GIVE ARTIFICIAL RESPIRATION.

NOTE TO PHYSICIAN: FIRST SYMPTOMS EXPECTED ARE THOSE OF RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM DEPRESSION; EXCITATION MAY FOLLOW. TREAT SYMPTOMATICALLY.

RESPIRATORY PROTECTION: IF IT IS NECESSARY TO ENTER AN AREA UNDER FUMIGATION WITH SULFURYL FLUORIDE, CERTAIN ACID GAS CANISTERS MAY BE USED FOR LIMITED PERIODS OF TIME. FRESH CANISTERS MARKED UNDER THE FOLLOWING DESCRIPTIONS HAVE BEEN TESTED AND FOUND TO PROVIDE EFFECTIVE PROTECTION UNDER CONDITIONS DESCRIBED IN THE FOLLOWING TABLE:

For higher concentrations of SULFURYL FLUORIDE or for longer periods of time, use air-supplied breathing apparatus.

Do not use any canister longer than 2 hours, even when used at lower concentrations or in fresh air. Do not contaminate or store near feed or foodstuffs.

DIRECTIONS FOR USE

PREPARATION FOR FUMIGATION: Remove from the structure to be fumigated, all persons, domestic animals, pets-including goldfish, and desirable growing plants. Food and medicinals not in sealed glass or metal containers must be either a) removed from the building, b) placed in polyethylene plastic bags of 4 mil or greater thickness and sealed with masking tape or clamps or c) placed in refrigerator or freezer with the door cracks sealed completely with masking tape. Extinguish all flames, including pilot lights. Open doors between rooms and off hallways, and openings into crawl spaces of attics and sub-floors. For control of fabric pests open storage chests, drawers, and closets. Provide for forced air circulation of the fumigant during the application period.

For masonry or metal structures, seal all cracks and other air leaks with caulking material or tape, and seal cracks around doors, windows, vents and other openings. Wooden structures and others that cannot be readily sealed may be completely enveloped with an impervious tarpaulin material such as 4 mil polyethylene sheeting. To prevent escape of gas through the soil and to avoid injury to nearby plants, wet the soil to a depth of six inches for a distance of one foot outward from the edge of the cover. Seal securely all sheeting seams, and seal the lower edges of the cover to the ground with moist soil or with sand or water "snakes."

In cold weather it is recommended the air temperature within the building be warmed to at least 55°F before introducing the fumigant.

WARNING AGENT FOR USE IN CLEARING STRUCTURES PRIOR TO FUMIGATION:

AFTER PREPARING THE STRUCTURE FOR FUMIGATION AND SEALING EXCEPT FOR ONE entrance, place a handful of cotton in a shallow dish and set the dish in the air stream of an electric fan. Pour chloropicrin over the cotton. Use 1 ounce per 10,000 to 15,000 cubic feet of space to be fumigated. Seal the last opening to the building and start the fan. Check for leaks. Five to ten minutes later introduce the SULFURYL FLUORIDE.

DOSAGE AND EXPOSURE: For general fumigation to control drywood termites, the FUMIGUIDE calculator is recommended for the coordination of fumigant rates with temperature, exposure and a fumigant concentration loss rate measured as half-loss-time (HLT). The use of the FUMIGUIDE B calculator is recommended for coordination of fumigant rates with temperature, a 20 to 24 hour exposure period and an estimated half-loss-time (HLT). For general fumigation to control lyctus or powder post beetle and death watch beetle-use 10 times the amount of SULFURYL FLUORIDE as required for drywood termite control as determined by use of the FUMIGUIDE calculator or the FUMIGUIDE B calculator. For specific control of bedbugs-use 2 times the amount; for old-house borer-use 4 times the amount; and for clothes moths-use 6 times the amount of SULFURYL FLUORIDE recommended for control of drywood termites.

RELEASING THE FUMIGANT: Release the fumigant from outside the structure. Lead it from the shipping cylinder into an open space in the building through a suitable leak-proof tube. One-quarter inch copper or polypropylene tubing or polyethylene tubing of at least 62 mil wall thickness is satisfactory. Direct the fumigant into the blast of air from a fan. Run the fan during application and for 30 minutes after application is finished. For an average structure, the entire amount may be released in one place, but for large or complex structures release it at two or more locations so chosen as to ensure even distribution of the gas. To prevent corrosion, avoid applying gas directly to metal surfaces.

AERATION: At the end of the exposure period, remove all seals and open all doors and windows. Use ventilation fans to remove fumigant from dead air pockets. Do not reoccupy building until aeration is complete. Check for completeness of aeration with a suitable fumigant monitoring instrument.

For more accurate dosage rates, use one lb. of product per 1000 cubic feet of space for 24 hour exposure period with temperature 70°F. or above. Two lbs. of product per 1000 cubic feet of space for 24 hours if room temperature is 55 to 69°F.



Manufactured for:

ACETO CHEMICAL CO., INC.
AGRICULTURAL CHEMICALS DIVISION

126-02 NORTHERN BOULEVARD, FLUSHING, N.Y. 11368

ACCEPTED WITH COMMENTS