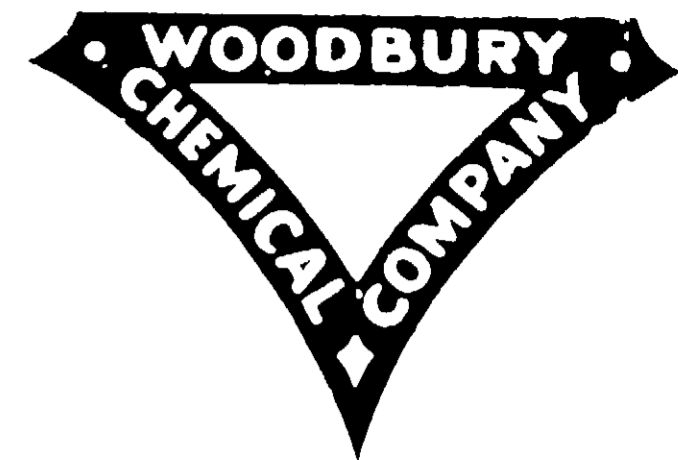


FUME-33

SOIL FUMIGANT

LBS. NET



FOR PREPLANT CONTROL OF MANY SOIL-BORNE PESTS IN PLANT BEDS AND NURSERIES

ACTIVE INGREDIENTS	100%
Methyl Bromide	67%
Chloropicrin	33%

DANGER - POISON
KEEP OUT OF REACH OF CHILDREN

READ COMPLETE PRECAUTIONS ON CENTER PANEL

USES

Use FUME-33 soil fumigant for preplanting application in soil for control of nematodes, certain soil-borne diseases, insects, and weeds in nurseries and in certain seed bed, plant bed and field crop areas. Typical pests controlled are nematodes such as root-knot, lesion, dagger, stunt, spiral, cyst formers, lance, sting, and pinching off diseases caused by certain species of Rhizoctonia Pythium, Fusarium and certain others; insect wireworms and white grubs in the soil at time of treatment; and weeds such as chickweed, pigweed, nutcrackergrass, goosegrass, crowfootgrass, Barnyardgrass, purslane, morning glory and many other broadleaf and grass weeds. FUME-33 will give excellent performance in forest tree, ornamental shrub and turf nurseries; in annual and perennial flower, forest tree, tomato, tobacco, strawberry and ornamental seed and plant beds; in vegetable seed beds for production of transplants only; and in soil where strawberries and tomatoes are to be grown in the field.

DIRECTIONS

WHEN TO TREAT: Treatments can be made in the spring, summer, or fall whenever soil conditions are suitable. In northern states, late summer or early fall treatments are best for land to be planted to early spring crops.

SOIL PREPARATION: To facilitate fumigant penetration, crop residues should be worked into the soil and allowed time to decompose before treating. Soil must be in good workable seed bed condition, with temperature between 50°F and 80°F at the five inch level and with adequate moisture for good seed germination. Deep tillage, 12 to 18 inches, often improves results, especially in heavy or muck soils.

APPLICATION AND DOSAGE: For overall applications of FUME-33 use 250 to 350 pounds per acre with chisel type applicator, having the chisels spaced no more than 12 inches apart and injecting the fumigant at a depth of 6 to 8 inches below the soil surface. For row applications use at the same dosage rates per acre as suggested for overall treatment. The actual amounts used per acre, however, will be proportionately less and dependent upon the distance between rows and the width of the treated area. Due to the volatility of this fumigant, treated soil must be sealed after application by rolling or cultipacking immediately behind the injection chisels and then covered as soon as possible, preferably within 20 minutes, with polyethylene film or other suitable gas tight tarpaulin.

EQUIPMENT CALIBRATION: For best results, accurately calibrate fumigation equipment before application. Consult the Dosage Calibration Chart to determine proper orifice size and pressure required to deliver the desired dosage. Calibrations are based on equipment with chisels spaced 12 inches apart.

AERATION: Remove tarpaulin after 24 to 48 hours. Allow the soil to aerate for two weeks before planting. If, after this period, FUME-33 persists in the soil as indicated by odor or by eye irritation on close examination, disc or plow the soil to help aeration.

GREENHOUSES: For production of tomatoes only. Follow directions for row application with doors open and fans running. After application and tarping, secure and post the structure to prevent unprotected persons and domestic animals from entering. After the 24 to 48 hour exposure period, open doors and turn on fans prior to removing tarpaulins. Follow directions for Aeration and all other directions.

DOSAGE CALIBRATION CHART

Dosage Pounds Per Acre	Tractor Speed			
	2 Miles per Hour (176 ft. per min.)		3 Miles per Hour (264 ft. per min.)	
	Orifice Diameter In Inches	Approximate Pressure psi	Orifice Diameter In Inches	Approximate Pressure psi
200	.020	25	.020	34
250	.020	28	.030	36
300	.020	31	.035	36
350	.035	25	.043	29

USE PRECAUTIONS

Fumigation may temporarily raise the level of ammonia, nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of fertilizer and fumigant are applied to soils that are either cold, wet, acid, or high in organic matter. To avoid injury to plants, fertilize as indicated by plant nutrient tests made after fumigation. To avoid ammonia injury or nitrate starvation, or both, to crops, avoid using fertilizers containing ammonium salts and use only those containing nitrate nitrogen until after the crop is well established and the soil temperature is above 65°F. Certain crops are tolerant to ammonia, therefore the above rule does not apply to them. Liming highly acid soil, before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

NOTE: To avoid the possibility of exceeding bromide tolerances, food crops other than strawberries and tomatoes should not be grown to maturity in soil treated with FUME-33 soil fumigant. Transplant soil crops to untreated soil or soil treated according to registered pesticide uses.

Vapors of FUME-33 are extremely irritating to the eyes. Provide good ventilation when applying or transferring to other containers. If it is necessary to be in discomforting vapor concentrations, wear a face gas mask with a filter, recommended for use in gas fires and organic vapors. Do not apply to areas adjacent to fields, vine or valuable crops, and avoid areas inhabited by humans or livestock.

FUME-33 should not be applied when there is little or no wind, or when there is an atmospheric inversion, since uncomfortable concentrations of the fumigant may drift to nearby areas. Immediately after treated areas with plastic tarpaulin. The tarpaulin should be removed and replaced overnight and be removed during the daytime. If the escaping vapors reach an undesirable concentration as indicated by eye irritation in the treated area should be recovered. Since a wind down of the fumigation of the escaping fume, it is most likely that undesirable concentrations will build up during the night when the air is static.

Do not use containers or application equipment made of aluminum, magnesium or their alloys, or other certain conditions FUME-33 fumigant may be severely corrosive to such metals.

NOTICE: Seller warrants that the product conforms to its chemical description and is suitable 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 in any abnormal conditions, or under conditions not reasonably foreseeable to seller and buyer, assuming the use of any such use.

Manufactured for
WOODBURY CHEMICAL COMPANY
Princeton, Florida 33030

ME-33

FUMIGANT

SOIL-BORNE PESTS IN PLANT BEDS AND NURSERIES



165-111

100

DOSAGE CALCULATION CHART

1.0% solution

2 Miles per Hour
176 ft. per minute

3 Miles per Hour
264 ft. per minute

100
1000
10000

100
1000
10000

100
1000
10000

100
1000
10000

100
1000
10000

USE PRECAUTIONS

For general information, see the label for this product. The following are general precautions for the use of this product:

1. Read and understand the label for this product before using it.

2. Do not use this product in a confined space.

3. Do not use this product in a room with a high ceiling.

4. Do not use this product in a room with a high humidity.

5. Do not use this product in a room with a high temperature.

6. Do not use this product in a room with a high concentration of other fumigants.

7. Do not use this product in a room with a high concentration of other gases.

8. Do not use this product in a room with a high concentration of other vapors.

9. Do not use this product in a room with a high concentration of other liquids.

10. Do not use this product in a room with a high concentration of other solids.

11. Do not use this product in a room with a high concentration of other materials.

12. Do not use this product in a room with a high concentration of other objects.

13. Do not use this product in a room with a high concentration of other people.

14. Do not use this product in a room with a high concentration of other animals.

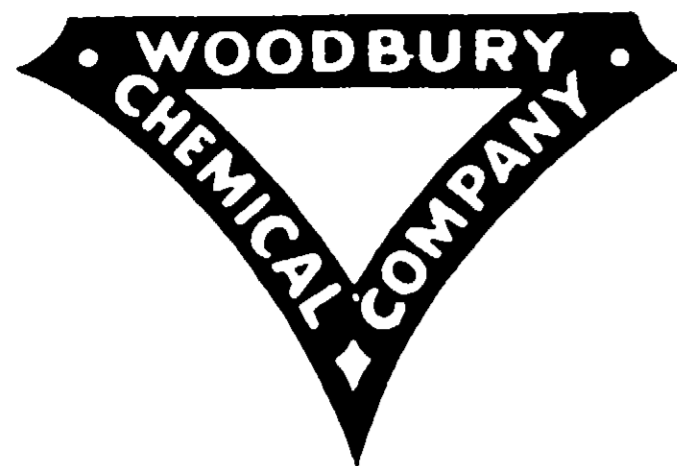
15. Do not use this product in a room with a high concentration of other plants.

16. Do not use this product in a room with a high concentration of other things.

ACCEPTED

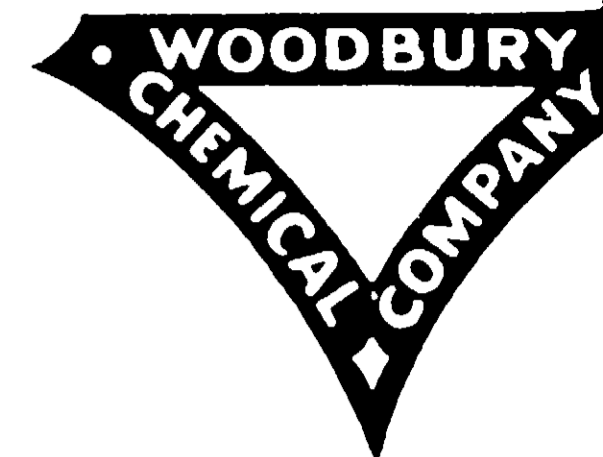
SEP 16 1975

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for use of waste registered under EPA Reg. No.



FUME-33

LBS. NET



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ACTIVE INGREDIENTS	100%
Methyl Bromide	67%
Chloropicrin	33%

 **DANGER - POISON** 
KEEP OUT OF REACH OF CHILDREN

READ COMPLETE PRECAUTIONS ON CENTER PANEL

USES

Use FUME-33 soil fumigant for preplanting application in soil for control of nematodes, certain soil-borne diseases, insects, and weeds in nurseries and in certain seed bed, plant bed and field crop areas. Typical pests controlled are nematodes such as root-knot, lesion, dagger, stunt, spiral, cyst formers, lance, sting, and pin; damping off diseases caused by certain species of Rhizoctonia Pythium, Fusarium and certain others; insects (wireworms and white grubs) in the soil at time of treatment; and weeds such as chickweed, pigweed, nutgrass, crabgrass, goosegrass, crowfootgrass, barnyardgrass, purslane, morningglory and many other broadleaf and grass weeds. FUME 33 will give excellent performance in forest tree, ornamental shrub and turf nurseries; in annual and perennial flower, forest tree, tomato, tobacco, strawberry and ornamental seed and plant beds; in vegetable seed beds for production of transplants only; and in soil where strawberries and tomatoes are to be grown for food.

DIRECTIONS

WHEN TO TREAT: Treatments can be made in the spring, summer, or fall whenever soil conditions are suitable. In northern states, late summer or early fall treatments are best for land to be planted to early spring crops.

SOIL PREPARATION: To facilitate fumigant penetration, crop residues should be worked into the soil and allowed time to decompose before treating. Soil must be in good workable seed bed condition, with a temperature between 50°F and 80°F at the five-inch level and with adequate moisture for good seed germination. Deep tillage, 12 to 18 inches, often improves results, especially in heavy or muck soils.

APPLICATION AND DOSAGE: For overall applications of FUME-33 use 250 to 350 pounds per acre with chisel-type applicator, having the chisels spaced no more than 12 inches apart and injecting the fumigant at a depth of 6 to 8 inches below the soil surface. For row applications, use at the same dosage rates per acre as suggested for over-all treatment. The actual amounts used per acre, however, will be proportionately less and dependent upon the distance between rows and the width of the treated row area. Due to the volatility of this fumigant, treated soil must be sealed after application by rolling or cultipacking immediately behind the injection chisels and then covered as soon as possible, preferably within 20 minutes, with polyethylene film or other suitable gas tight tarpaulin.

EQUIPMENT CALIBRATION: For best results, accurately calibrate fumigation equipment before application. Consult the Dosage Calibration Chart to determine proper orifice size and pressure required to deliver the desired dosage. Calibrations are based on equipment with chisels spaced 12 inches apart.

AERATION: Remove tarpaulin after 24 to 48 hours. Allow the soil to aerate for two weeks before planting. If, after this period, FUME-33 persists in the soil as indicated by odor or by eye irritation on close examination, disc or plow the soil the soil to help aeration.

GREENHOUSES: For production of tomatoes only. Follow directions for row application with doors open and fans running. After application and tarping, secure and post the structure to prevent unprotected persons and domestic animals from entering. After the 24 to 48 hour exposure period, open doors and turn on fans prior to removing tarpaulins. Follow directions for Aeration and all other use precautions.

DOSAGE CALIBRATION CHART

Dosage Pounds Per Acre	Tractor Speed			
	2 Miles per Hour (176 ft. per min.)		3 Miles per Hour (264 ft. per min.)	
	Orifice Diameter In Inches	Approximate Pressure psi	Orifice Diameter In Inches	Approximate Pressure psi
200	.029	23	.029	34
250	.029	28	.035	30
300	.029	34	.035	36
350	.035	28	.043	29

USE PRECAUTIONS

Fumigation may temporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of fertilizer and fumigant are applied to soils that are either cold, wet, acid or high in organic matter. To avoid injury to plants, fertilize as indicated by plant nutrient tests made after fumigation. To avoid ammonia injury or nitrate starvation, or both, to crops, avoid using fertilizers containing ammonium salts and use only those containing nitrate nitrogen until after the crop is well established and the soil temperature is above 65°F. Certain crops are tolerant to ammonia, therefore the above rule does not apply to them. Liming highly acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

NOTE: To avoid the possibility of exceeding bromide tolerances, food crops other than strawberries and tomatoes should not be grown to maturity in soil treated with FUME-33 soil fumigant. Transplant such crops to untreated soil or soil treated according to registered pesticide uses.

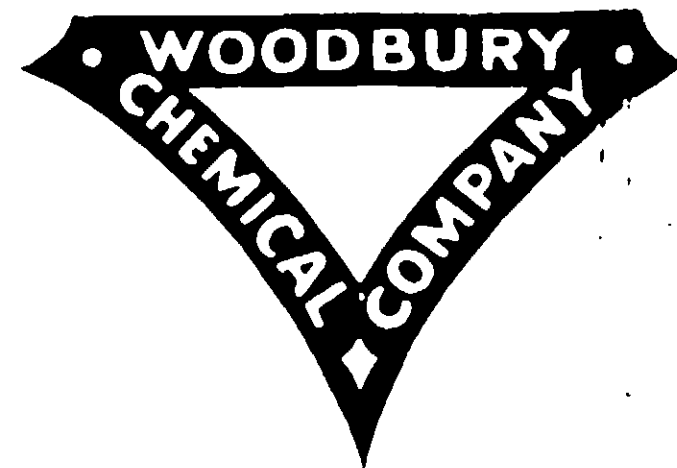
Vapors of FUME-33 are extremely irritating to the eyes. Provide good ventilation when applying or transferring it to other containers. If it is necessary to be in discomforting vapor concentrations, wear a full face gas mask with canister, recommended for use in acid gases and organic vapors. Do not apply to areas adjacent to fields where valuable crops are growing or near buildings inhabited by humans or livestock.

FUME-33 should not be applied when there is little or no air movement nor when there is an atmospheric inversion, since uncomfortable concentrations of chloropicrin may drift to nearby areas. Immediately cover treated area with plastic tarpaulin. The tarpaulins should remain in place overnight and be removed during the daytime. If the escaping vapors reach an undesirable concentration as indicated by eye irritation the treated area should be recovered. Since air movement assists the dilution of the escaping fumes it is most likely that undesirable concentrations will build up during evenings or nights when the air is static.

Do not use containers or application equipment made of aluminum, magnesium or their alloys, as under certain conditions FUME-33 fumigant may be severely corrosive to such metals.

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.

Manufactured for
WOODBURY CHEMICAL COMPANY
 Princeton, Florida 33030



LBS. NET

DS AND NURSERIES

DOSAGE CALIBRATION CHART

Tractor Speed

2 Miles per Hour (176 ft. per min.)		3 Miles per Hour (264 ft. per min.)	
Orifice Diameter inches	Approximate Pressure psi	Orifice Diameter in Inches	Approximate Pressure psi
.029	23	.029	34
.029	28	.035	30
.029	34	.035	36
.035	28	.043	29

USE PRECAUTIONS

Use the level of ammonia nitrogen and soluble salts in the soil. This is most of fertilizer and fumigant are applied to soils that are either cold, wet, acid, or alkaline. To avoid injury to plants, fertilize as indicated by plant nutrient tests made after harvest, or injury or nitrate starvation, or both, to crops, avoid using fertilizers containing only those containing nitrate nitrogen until after the crop is well established. Use only those containing nitrate nitrogen until after the crop is well established. Soil temperature is above 65°F. Certain crops are tolerant to ammonia, therefore the fumigant should be applied to them. Liming highly acid soils before fumigation stimulates nitrification and increases ammonia toxicity.

Do not exceed bromide tolerances, food crops other than strawberries and green beans. Do not apply to soil treated with FUME-33 soil fumigant. Transplant such crops according to registered pesticide uses.

Irritating to the eyes. Provide good ventilation when applying or storing. If it is necessary to be in discomforting vapor concentrations, wear a full face respirator recommended for use in acid gases and organic vapors. Do not apply to areas where crops are growing or near buildings inhabited by humans or livestock.

When there is little or no air movement nor when there is an atmospheric inversion, concentrations of chloropicrin may drift to nearby areas. Immediately cover the plants. The tarpaulins should remain in place overnight and be removed during the day when concentrations reach an undesirable concentration as indicated by eye irritation the following day. Since air movement assists the dilution of the escaping fumes it is most likely that high concentrations will build up during evenings or nights when the air is static.

The application equipment made of aluminum, magnesium or their alloys, as under the action of the fumigant may be severely corrosive to such metals.

The product conforms to its chemical description and is reasonably fit for the use intended when used in accordance with directions under normal conditions of use, but we make no warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Our warranty extends to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to seller and buyer assumes the risk of injury.

Manufactured for
WOODBURY CHEMICAL COMPANY
Princeton, Florida 33030

METHYL BROMIDE
AND CHLOROPICRIN
MIXTURE, LIQUID

POISON

ACCEPTED
SEP 16 1975

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for this pesticide registered under EPA Reg. No. 279-20

6

DANGER

KEEP OUT OF REACH OF CHILDREN
HIGHLY VOLATILE LIQUID
LIQUID MAY CAUSE BURNS
VAPORS MAY BE FATAL IF INHALED
Do Not Breathe Vapor — Keep Away From Heat
Do Not Get in Eyes, on Skin, on Clothing

Wash exposed areas of the body immediately with plenty of water. If in eyes get medical attention. If on skin get medical attention. Free of contact with clothing. Wash clothing before reuse.

POISON

SEND FOR A DOCTOR IMMEDIATELY
IN CASE OF EXPOSURE

ANTIDOTE: No known antidote, treat symptomatically
KEEP CHILDREN AND ANIMALS AWAY FROM PLOTS
UNDER TREATMENT