Use BROZONE soil fumigant for preplanting application in soil for control of nematodes 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 pin and certain other species insects such as 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. BROZONE will give excellent performance in fruit and forest tree, ornamental shrub and turf nurseries, in annual and perennial flower, tomato, tobacco, and strawberry 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 rood.

DIRECTIONS FOR APPLICATION AND PLANTING

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 furnigant penetration, plant refuse should be worked into the soil and time allowed to decompose before treating. Soil must be in good workable seed bed condition, warm, preferably 50 to 80 F at a depth of five inches, with moisture adequate for good seed germination. Do not treat if the soil temperature is below 45 F at the five inches level. Pretreatment tillage to a depth of 12 to 18 inches often improves results, especially in heavy or muck soils.

APPLICATION: A special inexpenieve chisel-type applicator is used to inject BROZONE soil fumigant about 5-8 inches into the soil. Due to the volatility of this fumigant it reated areas must be covered with polyethylene film or other suitable tarpaulin as soon as possible after application—preferably within 20 minutes. Lay film manually or with a mechanical tarpiayer BROZONE soil fumigant is toxic to plants. Therefore, do not apply to soil containing roots of desirable plants. The edges of the tarpaulin cover should be at least 18 inches away from the foliage drip-line of desirable plants.

Cylinders containing BROZONE are pressurized to expel the entire contents through metering orifices. No additional pressure is necessary for application of this fumigant.

EXPOSURE PERIOD AFTER APPLICATION

For soil temperatures above 60 F, leave the treated soil occurred for at least 48 hours to insure maximum fumigant diffusion. For soil temperatures below 60 F, extend the exposure period to 3 or 4 days for best results. In all instances, best results are obtained from fall applications where the overs are left on all winter.

DOSAGE RECOMMENDATIONS

Use BROZONE soil furnigant according to the following dosage table:

Use	Pounds Acre
Seed and plant beds	
Tomato, tobacco, forest trees	500
Vegetables (for production of transplants only)	500
Strawberries and tomatoes. For fruit production*	350
Nurseries	
Floral crops and turf	500
Woody perennials including fruit and forest trees ornamentals	600

^{*} When transplants are for fruit production allow of feast two weeks between field furnigation and plants ()

Consult the following table to determine the proper pressures and orifice sizes required to deliver the desired dosage per acre. These calibrations are based on the use of 2 or more chisels spaced 12 inches apart.



Sear 19-19-11

BROZONE SOIL FUMIGANT

To Control Many Weeds, Grasses, Nematodes And Insect Pests In Plant Beds And Nurseries

ACTIVE INGREDIENTS:	
Methyl Bromide	68.6%
Chloropicrin	
NERT INGREDIENTS: Petroleum hydrocarbons	
BROZONE'S Trademark of The Dow Chemical Company	
EPA Reg. No. 3442-680	

-----DANGER-

HIGHLY VOLATILE LIQUID
LIQUID MAY CAUSE BURNS
VAPORS MAY BE FATAL IF INHALED

Do Not Breathe / no. • Feep Away from Heat Do Not Cet i. Even or Skill on Clothing



SEND FOR A DOCTOR IMMEDIATELY IN CASE OF AN ACCIDENT ANTIDOTE: No known antidote, treat symptomatically.

KEEP CHILDREN AND ANIMALS AWAY FROM PLOTS UNDER TREATMENT

DO NOT SPILL OR DISCHARGE CONTENTS OUTSIDE GROUND COVER. In case of enaperor trouble or other error jency where high concentrations of vapor may be encountered, wear a fail face gail mark fitted with a high kindrister along proved by the U.S. Bureau of More, for one with organic vapors.



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DIRECTIONS FOR APPLICATION AND PLANTING

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DOSAGE RECOMMENDATIONS

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BROZONE SOIL FUMIGANT

To Control Many Weeds, Grasses, Nematodes And Insect Pests In Plant Beds And Nurseries

ACTIVE INGREDIENTS:

Methyl Bromide		686%
Chloropicrin		 1 4 %
INERT INGREDIENTS: Petroleum hydroca bons		30.0%
BROZONE ¹ : Trademark of The Dow Chemical Company		
EPA Reg. No. 3442-680		

SEND FOR A DOCTOR IMMEDIATELY IN CASE OF AN ACCIDENT ANTIDOTE: No known antidote, treat symptomatically.

KEEP CHILDREN AND ANIMALS AWAY FROM PLOTS UNDER TREATMENT

DO NOT SPILL OR DISCHARGE CONTENTS OUTSIDE GROUND COVER



DOSAGE CALIBRATION CHART

	Tractor Speed			
Dosage Pounds Per Acre	2 Miles Per Hour		3 Miles Per Hour	
	Orifice Diameter In Inches	Approximate Pressure psi	Orifice Diameter In Inches	Approximate Pressure psi
350 500 600	043 .055 .055	31 30 38	055 .063 .063	32 36 44

WHEN TO PLANT AFTER THE EXPOSURE PERIOD

Crops can usually be seeded 3 days after the cover is removed. For transplants aerate the soil 7 to 10 days prior to planting. NOTE: To avoid the possibility of exceeding bromide tolerances allow an aeration period of at least 2 weeks when transplants of strawberries and tomatoes for crop production are set in fumigated fields. If rains or soil temperatures below 60°F occur during aeration, delay seeding or planting until the soil is returned to a tillable condition with suitable moisture and temperature for good plant growth.

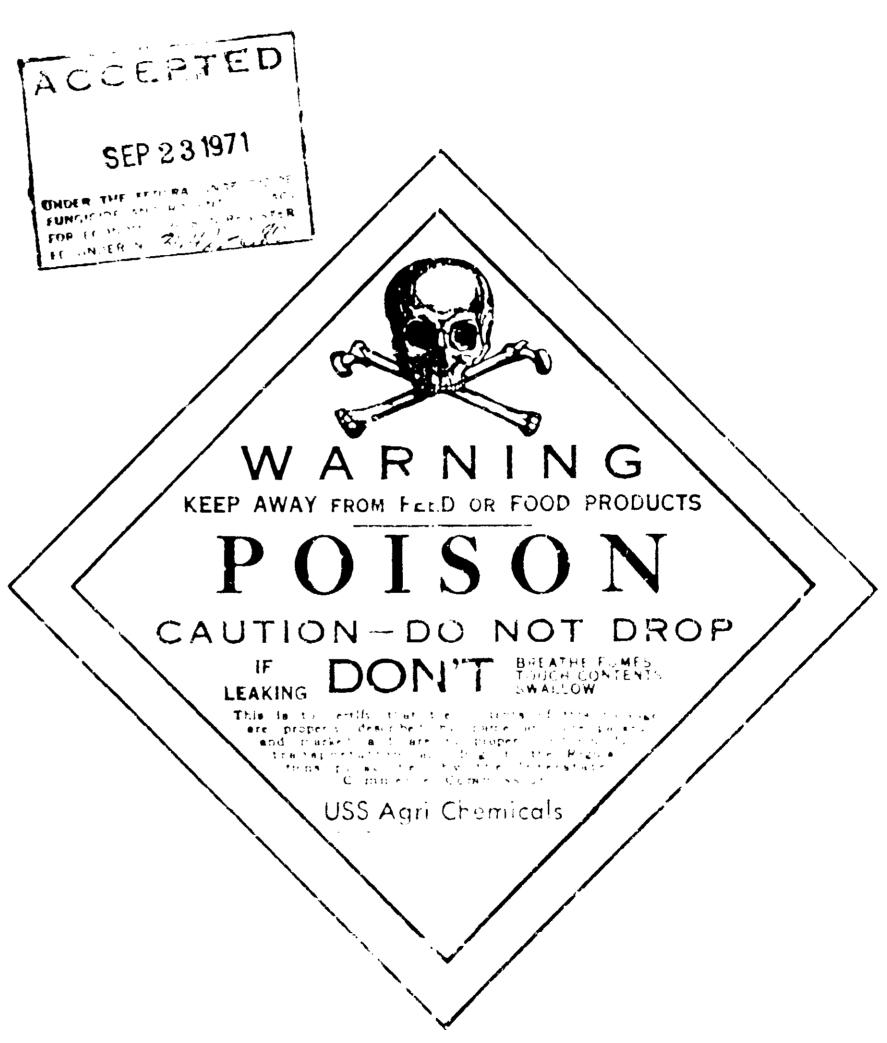
USE PRECAUTIONS

NOTE CAREFULLY: 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 rertilizer 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, avoid using fertilizers containing ammonium soils and use only fertilizers 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.

Fumigation of soil may accentuate phosphate deficiency. Therefore, in soils ow in available phosphorus, add and work into the soil 500 pounds of superphosphate per acre before fumigating.

Avoid reinfestation of treated soil. Do not walk from untreated area into treated areas. Do not use tools, equipment, transplants or crop remains infested with soil-borne plant parasitic pests and weed seeds in the fumigated areas. If the treated area is in a location where heavy rainfall may cause flooding or washing, plow a furrow or make trenches around the area to assure proper drainage away from the treated portion. Suitable wooden-frame parriers around the treated plant beds are also satisfactory for preventing this type of re-contamination.

DANGER: To avoid the possib 'y of exceeding bromide tolerances, food crops other than strawberries and tomatoes should not be grown to maturity in soil treated with BROZONE soil fumigant. Transplant such crops to untreated soil or to soil treated according to registered pesticide uses. Under certain conditions BROZONE soil fumigant may be severely corrosive to certain metals. Do not use containers or application equipment made of aluminum, magnesium, or their alloys. Clean application equipment immediately after use by flushing thoroughly with diesel oil or kerosene. Store BROZONE soil fumigant in tightly closed cylinders in a cool place away from twellings and out of the reach of children.



METHYL BROMIDE—CHLOROPICRIN
MIXTURE, LIQUID

DOSAGE CALIBRATION CHART

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USE PRECAUTIONS

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METHYL BROMIDE—CHLOROPICRIN MIXTURE, LIQUID

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