



HENDRIX and DAIL, Inc.

803 INDUSTRIAL BLVD.

GREENVILLE, NORTH CAROLINA 27834

TELEPHONE (919) 758-4263

BEST AVAILABLE COPY

MBC CONCENTRATE SOIL FUMIGANT

Active Ingredients: Methyl Bromide 99%
Inert Ingredients: Chloropicrin (added as warning agent) 2%
Total 100%

A preplant soil fumigant for the control of nematodes, insects, and weeds in certain plant beds, nurseries and certain field crop areas. Typical nematodes controlled are root knot, lesion, dagger, stunt, spiral, cyst formers, lance, sting pin, and certain other species. Such insects as wireworms and white grubs present in the soil at time of treatment are also controlled. Examples of weeds that are controlled include chickweed, pigweed, crabgrass, goosegrass, crowfoot grass, barnyard grass, purslane, and many other broad leaved weeds and grasses. **MBC Concentrate soil fumigant will give excellent performance in forest tree, ornamental shrub and turf nurseries: Turf Renovation: Lawns, parks, golf greens, athletic fields and other ornamental and recreational turf areas in annual and perennial flower, forest tree, tobacco, strawberry, broccoli, cauliflower, eggplants, peppers, tomatoes, and ornamental plant beds for the production of transplants as well as in other soil where strawberries and tomatoes are grown as food crops. Do not use more than 245 lbs. of MBC Concentrate per acre on all soils to be used for strawberries and tomatoes grown as food crops.**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

SAFE USE DIRECTIONS

This fumigant is a highly hazardous material and should be used only by individuals trained in its proper use. Before using, read and follow all label precautions and directions, including the attached product manual.

All persons working with this fumigant must be knowledgeable about the hazards, and trained in the use of required respirator equipment and detector devices, emergency procedures, and proper use of the fumigant.

(specific directions for use follow)

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, warm (50-60 degrees F. at the five-inch level), with adequate moisture for good seed germination. Do not treat if the soil temperature is below 45 degrees F. at the five-inch level. Deep tillage, 12 to 18 inches, often improves results, especially in heavy or muck soils.

APPLICATION: Apply at the rate of 250 to 650 lbs. per acre with a special chisel-type applicator to inject MBC Concentrate soil fumigant about 5 inches into the soil. Due to the volatility of this fumigant, treated areas must be covered with polyethylene film as soon as possible, preferably within 1 minute of fumigant application. The film may be laid manually or mechanically with a tarp-layer.

EXPOSURE PERIOD AFTER APPLICATION

For soil temperatures above 60 degrees F., leave the treated soil covered with the plastic film for at least 24 hours before removal to ensure maximum diffusion. For soil temperatures below 60 degrees F., extend the exposure period to 2 days for optimum results.

WHEN TO PLANT AFTER THE EXPOSURE PERIOD

Crops can usually be seeded 2 to 3 days after the cover is removed. For transplants, germinate for 7 to 10 days. If rains or low temperatures (below 60 degrees F.) occur during germination, extend the germination period. For tomato and strawberry transplants, germinate 2 weeks.

METHYL BROMIDE—CHLOROPICRIN MIXTURE, LIQUID
WEIGHT 14 POUNDS PER GALLON

RESTRICTED USE PESTICIDE DUE TO ACUTE TOXICITY

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

PRECAUTION AL USUARIO

Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada simplemente.

DANGER: KEEP OUT OF REACH OF CHILDREN **PELIGRO: KEEP OUT OF REACH OF CHILDREN**

READ COMPLETE PRECAUTIONS ON SIDE PANEL

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 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 any fertilizers containing nitrate nitrogen until after the crop is well established and the soil temperature is above 65 degrees F. Certain crops are tolerant to ammonia therefore the above rule does not apply to them. Liming high acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

Do not contaminate fumigated areas by walking from unfumigated to fumigated soil. If the treated area is in a location where flooding or washing is possible after rains, plow a furrow or make a trench around it for proper drainage. Wooden frames around the beds are also satisfactory for preventing this type of contamination.

MBC Concentrate soil fumigant is toxic to plants; therefore, do not apply to areas containing roots or desirable vegetation. The edge of the cover should be at least 18 inches beyond foliage drip line of living plants.

Some difficulty has been experienced through the use of MBC Concentrate on soil planted to the following crops: conifers, salvia, snapdragons, carnation, multiflora roses, Burford's Chinese holly, as well as certain other plants. Fumigate on a small scale until safety to all plants is determined under growing conditions.

Avoid reinfestation of treated soil. Do not use transplants, tools, or crop remains infested with soil-borne plant parasitic pests and weed seeds. Clean applicator carefully before and after use.

Do not use containers or application equipment made of aluminum, magnesium or their alloys, as under certain conditions MBC Concentrate soil fumigant may be severely corrosive to such materials.

Store MBC Concentrate soil fumigant in tightly closed cylinders and empty cylinders in a cool open shelter away from dwellings and out of the reach of children. Empty cylinders are to be returned to vendor.

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, expressed 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.

To Control M
Nematode
In Plant
Fields,

DANGER

Extremely hazardous liquid or cause serious acute illness vapor. Liquid or vapor can cause delayed onset. Do not get it

This product contains chloropicrin irritating to the upper respiratory tract. Irritation to the eyes, prod. fumigation area immediately

STATEMENTS

In all cases of overexposure a doctor or emergency treat if inhaled: Get exposed person to breathe fresh air. If breathing anything by mouth to an untrained person. Immediately remove clothing. Wash contaminated skin. Wash contaminated clothing. Hold eyelids open at least 15 minutes.

Early symptoms of overexposure are weakness and collapse. Lungs accompanied by cardiac irregularities. Repeated overexposures or imbalances, with probable high levels suggest the occurrence of symptoms.



DO NOT SPILL OUTS

KEEP CHILDREN AWAY

This pesticide is toxic to wildlife, lakes, streams, ponds, estuaries, specifically identified and address containing this product to sewer plant authority. For guidance EPA.

NET

E.P.A. REGISTRATION No. 8853-2

ACCEPTED
8853-2
3 DEC 1987
UNDER THE FEDERAL PESTICIDE CONTROL AND REIDENTIFICATION ACT AND ECONOMIC POLICY REGISTERED UNDER NO. 8853-2 SUBJECT TO ATTACHED COMMENTS

CENTRATE FUMIGANT

99%
agent) 2%
100%

insects, and weeds in certain plant
nematodes controlled: root knot,
ring pin, and certain other species.
in the soil at time of treatment are
controlled include: tickweed, pigweed,
purslane, and many other broad
leaf weeds. Soil fumigant will give excellent
results in: Turf Renovation: Lawns,
golf courses and recreational turf areas in
home lawns, strawberry, broccoli, cauliflower,
and other vegetable crops. Fumigant is used
to control weeds and grasses in
preparation for the production of transplants.
Fumigant is used to control weeds and
grass seeds in the production of transplants.
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DUE TO ACUTE TOXICITY**

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under their direct supervision, and only for those uses covered
by the Certified Applicator's certification.

PRECAUTION AL USUARIO

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explicada ampliamente

DANGER: KEEP OUT OF REACH OF CHILDREN

PELIGRO: MANTENER FUERA DEL ALCANCE DE LOS NIÑOS

READ COMPLETE PRECAUTIONS ON SIDE PANEL

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 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 any fertilizers containing nitrate nitrogen until after
the crop is well established and the soil temperature is above 65 degrees F. Certain crops
are tolerant to ammonia therefore the above rule does not apply to them. Limiting high
acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia
toxicity.

Do not contaminate fumigated areas by walking from unfumigated to fumigated soil.
The treated area is in a location where flooding or washing is possible after rains, plow
a furrow or make a trench around it for proper drainage. Wooden frames around the
beds are also satisfactory for preventing this type of contamination.

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containing roots or desirable vegetation. The edge of the cover should be at least 18
inches beyond foliage drip line of living plants.

Some difficulty has been experienced through the use of MBC Concentrate on soil planted
to the following crops: conifers, salvia, snapdragons, carnation, mulberry, roses, Burford's
Chinese holly, as well as certain other plants. Fumigate on a small scale until safety
to all plants is determined under growing conditions.

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under normal conditions of use, but neither this warranty nor any other warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, expressed 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.

**To Control Many Weeds, Grasses,
Nematodes And Insect Pests
In Plant Beds, Turf Areas,
Fields, And Nurseries**

DANGER - PELIGRO

HAZARDS TO HUMANS

Extremely hazardous liquid and vapor under pressure. Inhalation may be fatal
or cause serious acute illness or delayed lung, nerve or brain injury. Do not breathe
vapor. Liquid or vapor can cause serious skin or eye injury which may have a
delayed onset. Do not get liquid on skin, in eyes or on clothing.

This product contains chloropicrin as a warning odorant. Chloropicrin may be
irritating to the upper respiratory tract, and even at low levels can cause painful
irritation to the eyes, producing tearing. If these symptoms occur, leave the
fumigation area immediately.

STATEMENT OF PRACTICAL TREATMENT

In all cases of overexposure, get medical attention immediately. Take person to
a doctor or emergency treatment facility.

If inhaled: Get exposed person to fresh air. Keep warm. Make sure person can
breathe freely. If breathing has stopped, apply artificial respiration. Do not give
anything by mouth to an unconscious person.

If on skin: Immediately remove contaminated clothing, shoes, and any other item
on skin. Wash contaminated skin area thoroughly with soap and water.

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for
at least 15 minutes.

NOTE TO PHYSICIAN

Early symptoms of overexposure are dizziness, headache, nausea and vomiting,
weakness and collapse. Lung edema may develop in 2 to 48 hours after exposure,
accompanied by cardiac irregularities; these effects are the usual cause of death.
Repeated overexposures can result in blurred vision, staggering gait and mental
imbalance, with probable recovery after a period of no exposure. Blood bromide
levels suggest the occurrence, but not the degree, of exposure. Treatment is
symptomatic.



**DO NOT SPILL OR DISCHARGE CONTENTS
OUTSIDE GROUND COVER**

**KEEP CHILDREN AND ANIMALS AWAY FROM PLOTS
UNDER TREATMENT**

This pesticide is toxic to wildlife. Do not discharge effluent containing this product into
lakes, streams, ponds, seweries, oceans, or public waters unless this product is
specifically identified and addressed in an NPDES permit. Do not discharge effluent
containing this product to sewer systems without previously notifying the sewage treatment
plant authority. For guidance contact your State Water Board or Regional Office of the
EPA.

NET CONTENTS: 200 Pounds

E.P.A. est.

E.P.A. REGISTRATION
No. 8853-2

8853-GA-1 | |
8853-NC-1 | |
8853-KY-2 | |
8853-NC-2 | |

PRIOR TO FUMIGATION

Comply with all local regulations and ordinances. Obtain an application permit from Agricultural
Regulatory Agencies as required.

Never fumigate alone. It is imperative always to have an assistant and proper protective
equipment in case of accidents.

Drivers of application equipment must advise other workers of all precautions and proceed as
in addition, drivers must instruct their helpers in the mechanical operation of the tractor and
driver while fumigating.

Handle this fumigant in the open, with the operator "up wind" from the container where there
is good ventilation.

Check fumigant pressure systems for leaks before beginning operation.

Two trained persons must be present during introduction of the fumigant.

When fumigating soil from a tractor, 5 gallons of water must be carried on the tractor and
placed where it is readily accessible. In addition to water available on the tractor, at least 5
gallons additional water must be available from the service truck. This water must be potable
and in containers marked "Decontamination water not to be used for drinking."

All trash should be cleared from the field before starting fumigation.

DURING FUMIGATION

The fumigant should not be applied when there is an atmospheric inversion. Since
uncomfortable concentrations of chloropicrin may drift to nearby areas, immediately cover treated
area with plastic tarpaulin for a minimum of 48 hours.

Do not lift injection shanks to turn at the end of a pass until fumigant has drained from system
following closure of shutoff valve.

If trash is inadvertently pulled by the shanks to the ends of the field when fumigating, it must
be covered by lifting the shanks, then covering the trash with polyethylene film before making
the turn for the next pass.

When changing the cylinders, be certain they are turned off and fumigant system is not under
pressure.

AFTER FUMIGATION

Post all treated areas with warning signs.

Keep all animals, children and unauthorized people away from area under fumigation for 48
hours after fumigation and during removal of tarpaulin.

Two trained persons must be present during removal of the tarpaulin.

FOR SPILL OR LEAK DURING FUMIGATION

In case of a rupture of hose or fitting while applying fumigant, immediately stop tractor and
motor. Evacuate immediate area of spill or leak. Use SCBA or combination air-supplied/SCBA
respirator for entry into affected area to correct problem. Approach from upwind to make
necessary repairs. Do not reenter area without respiratory protection until a spill has evaporated
or a leak has been fixed.

PROTECTIVE CLOTHING

Wear loose cotton long sleeve shirt and pants, shoes and socks that are cleaned after each
wearing. Do not wear jewelry, gloves or boots when handling. Methyl bromide is heavier than
air and may be trapped inside clothing and cause skin injury. If full-face respiratory protection
is not required, wear goggles or full face shield for eye protection when handling liquid. After
application, immediately remove clothing, shoes and socks. Do not reuse contaminated clothing
or shoes until cleaned. Drenched clothing cannot be adequately decontaminated.

STORAGE AND DISPOSAL

STORAGE: Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide
storage area.

Do not contaminate water, food or feed by storage. Store cylinders upright, secured to a rack
or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical
shock such as dropping, bumping, dragging, or sliding. Do not use rope slings, hooks, lings,
or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other
device to which the cylinders can be firmly secured.

Do not remove valve protection bonnet and safety cap until immediately before use. Replace
safety cap and valve protection bonnet when cylinder is not in use.

When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protection
bonnet before returning to shipper. Only the registrant is authorized to refill cylinders. Do not
use cylinders for any other purpose. Follow registrant's instructions for return of empty or partially
empty cylinders.

DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation
of Federal law. If these wastes cannot be disposed of by use according to label instructions,
contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste
representative at the nearest EPA Regional Office for guidance.

BEST AVAILABLE COPY

ACCEPTED
8853-2
3 DEC 1987
UNDER THE FEDERAL INSECTICIDE
AND MITTICIDE ACT
EPA ECONOMIC PESTICIDE REGISTER
EPA REGISTRATION NO. 8853-2
SUBJECT
ATTACHED COMMENTS