PATOL

1448-361

1414

MAR 2 2 1996

Ms. Kristin G. Counts Buckman Laboratories 1256 North McLean Memphis, TN 38108

Dear Ms. Counts:

Subject: Busan 1236 - Revised Confidential Statement of Formula

and Revised Labeling

EPA Registration No. 1448-361

Your Submissions Dated November 14th and

December 29, 1995

The Agency has reviewed the revised labeling and Confidential Statement of Formula(CSF) you submitted for the subject pesticide product and found them to be acceptable provided you satisfactorily address the following comments:

The proposed use of this product to control pathogenic microorganisms and nematodes in organic sludge must be supported by acceptable efficacy studies. Efficacy data requirements are outlined in 40 CFR part 158.640(b)(1). guidelines reference No. 97-1. To satisfy this requirement, you must either submit acceptable studies or, if such data are available from the EPA Pathogenic Equivalency Committee you referenced, you must provide that information for our review. If satisfactory efficacy studies/data are not forthcoming, all reference to organic sludge use must be deleted from the product labeling.

All other label revisions are acceptable.

2. The revised CSF is acceptable. A copy has been added to the files.

Submit efficacy data/information as outlined above. Additional label revisions may be required depending on the outcome of efficacy data review.

CONCURRENCES								
SYMBOL >	7505C							
SURNAME >	S. Jackson							
DATE •	Mar 22, 1996							

If you have any questions regarding this matter, please feel free to contact me or Sidney Jackson of my staff at 703/305-7610.

Sincerely yours,

Connie B. Welch

Product Manager, Team 21
Fungicide-Herbicide Branch
Registration Division (75)

Lance B Welch

A Multipurpose Soil Fumigant

BUSAN 1236

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 2 2 1996
Under the Federal Insecticide,
Fundicide, and Redesticide Act
as amended, for the posticide
registered under EPA Rog. No.

ACTIVE INGREDIENT:

This product contains 4.3 lb. of active ingredient per gallon and weighs 10.1 lb. per gallon,

THIS PRODUCT IS NOT TO BE SOLD IN THE FOLLOWING COUNTIES OF TEXAS: ATASCOSA, CAMERON, DUVAL, HIDALGO, MAVERICK, STARR, WILLACY, ZAPATA.

Manufactured by Buckman Laboratories, Inc. Memphis, Tennessee 38108, U.S.A.

IT IS THE RESPONSIBILITY OF THE USER TO READ THIS LABEL AND USE THIS PRODUCT ACCORDINGLY.

NET CONTENTS: AS MARKED ON CONTAINER EPA Reg. No. 1448-361 EPA Est. 1448-TN-1 EPA Est. 1448-MO-1

KEEP OUT OF REACH OF CHILDREN

DANGER

PELIGRO

Si Usted no entiende la etiqueta, busque a alquien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

- Corrosive: causes skin damage. May be fatal if absorbed through skin. Do not get on skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
- Harmful if swallowed
- Harmful if inhaled. Irritating to eyes, nose and throat. Avoid breathing vapor or spray mist.
- Imitating to eyes. Do not get in eyes.

Worker Protection Standards (WPS) for applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170):

Personal Protective Equipment (PPE)

(1) Handlers Performing Direct - Contact Tasks

Direct contact tasks include:

- Mixing, loading, or furnigant transfer with or without dry-disconnect fittings
- Equipment calibration or adjustment
- Equipment cleanup and repair
- Product sampling
- Application and soil sealing outside an enclosed cab
- Any activity less than 6 feet from an unshielded pressurized hose containing this product
- Spill cleanup
- Removal of tarp or plastic film
- Rinsate disposal
- Cleanup of small spills

- Preparing containers for aeration
- Any other handling task not otherwise listed in (2) or (3) below

Applicators and other handlers performing direct-contact activities must wear:

- Coveralls over long-sleeved shirt and long pants,
- Waterproof gloves,
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear for overhead exposures,
- Chemical-resistant apron when cleaning equipment, or when mixing, loading, or transfering without dry-disconnect fittings,
- Face sealing goggles, unless full face respirator is worn.
- A respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

(2) Handlers in Enclosed Cabs

Applicators and other handlers in enclosed cabs must wear,

- Coveralls
- Shoes and socks

Plus, if pungent, rotten-egg odor of this product can be detected inside the enclosed cab, the handlers in the cab must wear:

- Face sealing goggles, unless full face respirator is worn
- A respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH) approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G). In addition, the PPE specified in (1) for direct-contact activities must be immediately available in the enclosed cab and must be worn if the handler leaves the enclosed cab to perform any direct-contact activity. The enclosed cab must meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides 40 CFR 170.240(d)(5).

(3) Handlers in Treated Areas While Entry is Restricted

While entry is restricted (see "Entry Restrictions" in the Agricultural Use Requirements box elsewhere in this labeling), only the following handling task may be performed in a treated area outdoors in which a treatment took place:

- Assessing/adjusting the soil seal
- Operating ventilation equipment
- Assessing pest control, application technique, or application efficacy
- Sampling air or soil for this product

All other task are prohibited until the entry restriction is over.

Handlers performing the above task must wear:

- Coveralls over long-sleeved shirts and long pants.
- Waterproof gloves
- Chemical resistant footwear and socks

Plus: Handlers must wear if pungent, rotten egg odor of this product can be detected outdoors after ventilation criteria have been met:

- Face-sealing goggles (unless full-face respirator is worn) and
- A respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

USER SAFETY REQUIREMENTS

- 1. Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met:
 - a. Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner.
 - b. Respirators must be tit-tested and fit-checked using a program that conforms to the OSHA requirements (described in 29 CFR Part 1910.134).
- 2. Dispose of Contaminated Clothing: Discard clothing and other absorbent material that have been drenched or heavily contaminated with liquid from this product. Do not reuse them.
- 3. Clean and Maintain PPE: Follow manufacture's instructions for cleaning/maintaining PPE, If no such instructions for washables, use detergent and hot water. Keep and wash PPE seperately from other laundry. Wash PPE after each days use.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- *Remove clothing immediately if posticide get inside. Then wash throughly and put on clean clothing.
- *Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible wash throughly and change into clean clothing.

STATEMENT OF PRACTICAL TREATMENT

FIRST AID: Immediately start the procedures given below and contact a Poison Center, a physician or the nearest hospital. Report the type and extent of exposure, describe the victim's symptoms and follow the advise given.

IF ON SKIN: Immediately flush skin with large amounts of running water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.

IF IN EYES: Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

IF INHALED: Remove to fresh air. If not breathing clear the victim's airway and start mouth-to-mouth artificial respiration. If breathing is difficult, give oxygen, preferably with a physician's advise. Get medical attention immediately.

IF SWALLOWED: Immediately give several glasses of water, but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Do not expose to extreme temperatures. Do not stack more than 4 drums high. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

PESTICIDE DISPOSAL; Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate 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 your EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

USE PRECAUTIONS

Keep children and pets out of treated area. Keep off desirable lawns and plants. Do not apply within 3 feet of the drip line of desirable plants, shrubs or trees. Do not use in confined areas or where furnes may enter nearby houses. Do not use in greenhouses. Keep container tightly closed when not in use.

PRODUCT INFORMATION

CALIFORNIA ONLY

Application Must Be In Compliance With Technical Information Bulletin-California "Guidelines For All Application Methods For Metam Sodium In California". This Information Bulletin May Be Obtained From Your Local Pesticide Dealer Or Metam Sodium Registrant

Busan 1236 is a water-soluble liquid. When applied to properly prepared soil, the liquid is converted into a gaseous furnigant. After a sufficient waiting period, the gas dissipates, leaving the soil ready for planting. Busan 1236 is recommended for the suppression of weeds and the control of plant parasitic nematodes, and soilborne fungi that cause reductions in the yield and quality of ornamental, food, and fiber crops.

Busan 1236 will control only those pests in the fumigation zone at the time of treatment. Recontamination may occur subsequent to the fumigant's dissipation from the soil.

Weeds and germinating weed seeds that are suppressed include grasses (annual bluegrass, Bermuda grass, water grass, Johnson grass), sedges (nutgrass), composites (dandelion, ragweed), pinks (chickweed), mints (henbit), goosefoots (lambsquarters), amaranths (pigweed, careless weed), convolvulus (wild morning glory), purslanes, and nightshades. The best weed suppression is obtained when Busan 1236 is applied to weeds that are in an active vegetative growth phase.

The plant parasitic nematodes which Busan 1236 controls include root knot, lesion, dagger, lance, needle, pin, reniform, stunt, stubby root, sting, and spiral. Note: In the Northwest, Busan 1236 will only suppress *Meloidogyne chitwoodi*.

The plant pathogenic fungi controlled include species of Verticillium, Rhizoctonia, Pythium, Phytophthora, Sclerotinia, as well as Sclerotium rolfsii, Armillaria mellea (Oak root fungus), and Plasmodiophora brassicae (Club root fungus), Phoma (Pyrenochaeta) terrestris, Cylindrocladium crotalariae (Cylindrocladium Black Rot).

BUSAN 1236 TREATMENT GUIDELINES

For optimum results from soil fumigation with Busan 1236, certain procedures should be observed at designated times in the treatment program. Described in this section are important guidelines for each of the four stages of the treatment process:

- Planning a Busan 1236 application
- Preparing a field for application applying Busan 1236
- Applying Busan 1236
- Preparing for planting after application of Busan 1236.

Your Buckman Laboratories representative will help you select the best treatment program for your particular needs.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the Agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forest nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal protective equipment, restricted entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

ENTRY RESTRICTIONS:

Outdoors: Entry (including early entry that would otherwise be permitted under the WPS) by any person—other than a correctly trained and equipped handler who is performing a handling task permitted on this labeling—is. PROHIBITED from the start of application until 48 hours after application. In addition, if tarps are used for the application, non-handler entry is prohibited while tarps are being removed.

NOTIFICATION: Notify workers of the application by warning them orally and by posting fundgant warning signs. The signs must bear the skull and crossbones symbols and state. (1) DANGER/PELIGRO, (2) Area under fumigation, DO NOT ENTER/NO ENTRE, (3) the date and time of fumigation, (4) BUSAN 1236 Fumigant in use, and (5) name, address, and telephone number of applicator. Post the fumigant warning signs instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, size and timing of posting and removal. Outdoors: Post the fumigant warning signs at entrances to treated areas.

PPE FOR ENTRY DURING THE RESTRICTED PERIOD: PPE for entry that is permitted by this labeling is listed in the Hazards to Humans and Domestic Animals section of this labeling.

General Precautions for Irrigation Systems

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public area such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when chemigated area is open to public such as golf courses.

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the comers of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs should be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioriation and maintain legibility for the duration of the posting period. All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol of at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDE IN IRRIGATION WATER. This sign is in addition to any sign posted to comply with the Worker Protection Standard

Planning a Busan 1236 Application

Time of Application

Busan 1236 is applied following harvest and not less than 21 days before a new crop is planted. In some area of North America, fall applications are preferred because the fumes dissipate over the winter, allowing planting to begin as soon as favorable springtime conditions arrive.

Application Over Cover Crops

Busan 1236 can be applied through sprinkler irrigation systems over cover crops such as alfalfa, clover, and such grasses as rye, oats, wheat, and sudan grass. When the product is applied over cover crops, no cultivation of the soil is required before the application of Busan 1236.

Application Rate

Apply 14 to 72 gallons of Busan 1236 per treated acre depending on crop, target pest, and soil properties. Soil properties to consider when determining the application rate include the depth of soil to be treated, soil texture, and percent organic matter.

Busan 1236 can be used at 22 and 37 gallons per treated acre before or following the use of Telone II. A minimum of a 14 day interval must be observed between the application of the products.

Target Pest and Depth of Treatment

For control of fungi causing seed or seedling diseases, treatment of only the top 2 to 4 inches of soil may be required. For control of nematodes and fungi which occur throughout the rhizosphere, treatment to depths greater than 4 inches may be required. For a given soil type, the required application rate will increase proportionately with the depth of treatment required. For example, if 25 gallons of Busan 1236 per acre is required to treat 4 inches, then 50 gallons of Busan 1236 will be required to treat to a depth of 8 inches. Choose the appropriate application method to distribute Busan 1236 evenly throughout the soil to the required depth.

Organic Matter in the Soil

Except in the case of cover crops, plant material under the soil surface should be thoroughly decomposed before Busan 1236 is applied. Because of the absorbing effect of humus, soils with high levels of organic matter under the surface require higher than usual doses of Busan 1236. For example, muck soils require twice the amount of furnigant that would be used in mineral soils.

Soil Texture

Application rates will vary with the soil texture. For instance, heavy clay soils require more Busan 1236 than light sandy soils.

Preparing a Field for Application

Soil Cultivation

Cultivate the soil thoroughly before treatment, breaking up all large clods. If the soil crusts following pretreatment irrigation, lightly cultivate it again before treatment with Busan 1236.

Soil Temperature During Treatment

At the time of fumigation, the soil temperature should be in the range of 40° - 90°F (4° - 32°C) at a depth of 3 inches. To prevent rapid evaporation of the product from the soil, avoid treating soil during times of the day when soil temperatures exceed 90°F (32°C). Instead, make the application during the early morning hours when the soil temperature is coolest.

Measuring the Soil Moisture

Application should be made under "good seed bed moisture conditions"; that is, the soil moisture should be about 50 - 80 percent of field capacity. As a simple field test, squeeze a handful of soil into a ball and then gently try to break it apart with your fingers. If it breaks easily, the soil moisture content is sufficient. If it will not break apart or if water can be squeezed out, it is too wet. When necessary, 1-2 weeks prior to treatment sprinkle or flood, irrigate the soil to increase the moisture content. The soil must be moistened to at least the desired treatment depth.

Area To Be Treated

Busan 1236 can be applied either broadcast or in bands, depending on the crop to be planted. For example, in the production of row crops, band applications are most economical.

Phytotoxicity

Busan 1236 is phytotoxic. Protect valuable, non-target plants by stopping soil applications of Busan 1236 at least 3 feet short of the drip line of trees, shrubs, and other desirable plants. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of Busan 1236.

Applying Busan 1236

Busan 1236 may be applied by chemigation, soil injection, disc, rotary tiller, power mulcher, and soil covering methods.

Use of Diluted Busan 1236

DO NOT STORE THE DILUTED PRODUCT. Use Busan 1236 promptly after it has been mixed with water. Although Busan 1236 is stable in its concentrated form, in dilute solutions in water Busan 1236 decomposes over a period of weeks.

Odors During Treatment

Strong odors during or after treatment are a signal that the furnigant is escaping and needs to be sealed in the soil.

Sealing Busan 1236 in Soil

To be most effective, Busan 1236 should be sealed in the soil. Sealing methods include applying irrigation water or plastic tarpaulins and packing soil with a roller or drag. Tarpaulins should be spread loosely over the treated area and secured to prevent removal by wind. They should remain in place for at least 48 hours. Seven days after treatment, the sealed area should be critivated to a depth of 2 inches to aerate the soil. When tarpaulins are used to seal the soil, wait at least 21 days before planting.

3

APPLICATION METHODS

1) CHEMIGATION METHODS

PRECAUTIONARY STATEMENTS

When applying by chemigation methods the following precautions must be observed:

GENERAL

- A. Apply this product only through the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; border; or drip (trickle) irrigation system(s). Do not apply this product through any other type of irrigation system.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- C. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- D. Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- E. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

• Chemigation Systems Connected to Public Water Systems

A "public water system" is one that provides piped water for human consumption to the public, and the system also either has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days a year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventor (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There should be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank measuring at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock. This valve prevents fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to shut off the pesticide injection pump automatically when the water pump motor stops. In cases where there is no water pump, controls on the pesticide injection pump are also needed when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

● Drift Prevention

Do not approvided when wind speed favors drift beyond the area intended for treatment.

• Runo'f of Treatment Solution

To prevent runoff of freatment solution during sprinkler application, do not exceed the infiltration rate of the solution into the soil Should runoff occur, isolate it from growing crops and water sources. Once collected, reapply it to the treated area

CALIFORNIA ONLY

Application Must Be In Compliance With Technical Information Bulletin-California. "Application Guidelines For California When Applying Metam Sodium Through Sprinkler Irrigation Systems." This Information Bulletin May Be Obtained From Your Local Pesticide Dealer or Metam Sodium Registrant.

BROADCAST CHEMIGATION METHODS

• Sprinkler Chemigation: Use 35 to 72 gallons Busan 1236 per treated acre for control of nematodes and fungi at a depth of 24 inches. For control of fungi and suppression of weeds at a depth of 6 inches or less, use 14 to 72 gallons per treated acre. Inject the Busan 1236 in enough water to reach the desired treatment depth. The product should be continuously metered into the irrigation system throughout the entire application period. Flush the system with only enough water to clear lines. If the soil surface dried quickly, reseal it with 15 minutes of water once a day for the next day or two.

Use sprinkler systems that give uniform coverage. Apply only through central pivot or solid set sprinkler irrigation systems containing antisiphon and check valves which will prevent water source contamination and overflow of the slurry tank. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must also contain interlocking controls between the metering device and the water pump to ensure simultaneous shut-off. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

NOTE: Effect of Air Temperature and Winds on Sprinkler Application

When using a sprinkler application method, apply Busan 1236 only when the air temperature is below 90°F (32°C). This precaution is recommended to guard against evaporation of the product. Either low humidity or high winds can also cause the evaporation of Busan 1236 before it can be drenched into the soil. To prevent wind drift of the fumigant, apply only when wind conditions are suitable.

Check, Flood (Basin), Furrow and Border Chemigation: Meter Busan 1236 at a steady rate into water during irrigation.
 Depending upon the kind of pest and the treatment depth desired, use 14 to 72 gallons of Busan 1236 per treated acre in 3 to 18 inches of water per acre

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity, such as a drop structure or weir box, to decrease the potential for contaminating the water source from backflow should the water flow stop.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements

- 1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

BAND, BED OR ROW CHEMIGATION METHODS

"Drip Chemigation": During pre-irrigation, check drip tape for uniform distribution and repair if necessary. Apply 14 to 72 gallons per treated acre. Inject Busan 1236 continuously into drip line as close as possible to treatment area. Use enough water to thoroughly wet entire desired treatment zone. Two or more lines per bed may be needed to ensure full coverage.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the imigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

• Drench Method: Busan 1236 may be applied to finished beds in enough water to soak at least 2 inches deep for suppression of shallow seeded weeds. To avoid contamination by untreated soil, do not disturb the treated area. Apply 14 to 72 gallons of Busan 1236 per treated acre.

2) OTHER FIELD APPLICATION METHODS

BROADCAST METHODS

INJECTION METHOD

Soil Injection: Use chisel or shank-type injectors to apply 14 to 72 gallons of Busan 1236 p or treated acre into well prepared soil. Seal immediately after treatment.

INCORPORATION METHODS

Disc or Plow Applied Method: Spray dilute Busan 1236 immediately under disc or plow. Use 14 to 72 gallons per treated ches. Follow immediately with a roller to smooth and compact the soil surface.

Rotary Tiller or Power Mulcher. Spray dilute Busan 1236 directly in front of tiller or mulcher. Use 14-72 gallons per treated acre. Follow immediately with roller or bed shapper to seal soil surface.

BAND, BED OR ROW METHODS

INJECTION METHOD

Soil Injection: Busan 1236 can be injected into pre-formed plant beds using chisel or shank-type injectors. If a wider treated band is desired, space 2 or more shanks to cover the desired treating width. Seal after treatment. Use 14 to 72 gallons per treated acre.

INCORPORATION METHODS

Rotary Titler or Power Mulcher: Spray dilute Busan 1236 immediately in front of tiller or mulcher. Use 14 to 72 gallons per treated acre. Follow immediately with roller or bed shaper to seal soil surface.

Soil Covering Methods (Bed-over methods): Busan 1236 may be sprayed or dripped onto the soil immediately ahead of bed-shaping equipment. Cover the Busan 1236 with soil to a depth of 3 to 6 inches. The recommended rate of Busan 1236 is 14 to 72 gallons per treated acre.

Busan 1236 may be applied to prepared or unprepared sites as a coarse spray treatment in a band using standard tractor spray application equipment. Use 55 to 72 gallons of product per treated acre. Apply irrigation water while spraying application is taking place and continue until enough water has been applied to drive the Busan 1236 to the minimum depth of two feet. Do not apply more than one inch of irrigation water. The soil should be at 50 - 80% field capacity at the time of application. Because Busan 1236 is harmful to plants, an appropriate interval must be observed between soil furnigation and planting. Planting can only begin 21 days (minimum) after treatment.

REPLANT METHOD:

Use 18 to 24 fl. oz. of Busan 1236 per 100 gallons of water. Use 16 gallons of this mixture per 4' x 4' treated area. More water and/or product may be necessary to treat different sized areas to insure product movement to desired depth.

Preparing for Planting After Application of Busan 1236

Effect of Rain

If a Busan 1236 application is rained on less than 2 is after treatment, lack of control at and near the soil surface may result.

Recontamination

)

Precautions must be taken to prevent recontamination of treated soil with plant pathogenic fungi and plant parasitic nematodes. Use clean seeds and plants. Before farm equipment is driven into the treated area, it should be rinsed free of the untreated soil from other fields.

Interval Between Treatment and Planting

Because Busan 1236 is harmful to living plants, an appropriate interval must be observed between soil furnigation and planting. On well drained soils which have a light to medium texture and which are not excessively wet or cold following application, planting can begin 14 -21 days after treatment. If soils are heavy or especially high in organic matter, or if they remain wet and/or cold (below 60°F or 15°C) following application, a minimum interval of 30 days should be observed.

Aeration Before Planting

Soils, including soils high in clay or organic matter, should be allowed to aerate and dry thoroughly after treatment with Busan 1236. During cold and/or wet weather, frequent shallow cultivation can aid the escape of Busan 1236 from the soil.

Testing for Dissipation of Busan 1236

After the waiting period has passed, if there is any question about the complete escape of Busan 1236 from the soil, transplant several seedlings into the treated soil. If the plant develops normally without any signs of chemical injury, crop planting can begin. For assistance in testing for dissipation of Busan 1236, contact your Buckman representative

LIMITED WARRANTY AND LIMITATION OF LIABILITY AND REMEDIES

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes any risk of any use contrary to such directions or resulting from extreme weather conditions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against selier shall be a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort. Any controversy or claim arising out of or relating to this contract, or breach thereof shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgement upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

Rev. 12/20/95

÷.

BUSAN® 1236

ACTIVE INGREDIENTS:

KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

Si Usted no entiende la etiqueta, busque a alquien para que se la explique a usted en detaile. (If you do not understand the label, find someone to explain it to you in detail).

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

- Corrosive: causes skin damage. May be tatal if absorbed through skin. Do not get on sidn or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals
- Harmful if swallowed
- Harmful if inhaled, irritating to eyes, nose and throat. Avoid breathing vapor or spray mist,
- irritating to eyes. Do not get in eyes

PERSONAL PROTECTION EQUIPMENT (PPE) FOR NON-WPS (non-agricultural) USES: This product should only be applied by Cartifled Pesticide Applicators for Non-WPS or non-agricultural uses.

Handlers Performing Direct - Contact Task

Direct-contact task include:

- mixing, loading, or lumigant transfer with or without dry-disconnect fittings
- equipment calibration or adjustment
- equipment cleanup and repair
- product sampling
- spill cleanup rimsate disposal
- cleanup of small soils

Applicators and other handlers performing direct-contact activities must wear:

- Coveralls over long-sleeved shirt and long pants.
- Chemical-resistant doves.
- Chamical-resistant footwear plus socks.
- Chemical-resistant headgear for overhead exposures,
- Chemical-resistant apron when cleaning equipment, or when mixing, loading, or transferring without dry-
- Face sealing goggles, unless full face respirator is worn.
- A respiraror with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefo. TC-14G).

USER SAFETY REQUIREMENTS

- Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met
 - a. Cartridget or canisters must be replaced daily or when odor or irritation from this product, becomes apparent, whichever is sooner.
 - Respirators must be lift-tested and fit-checked using a program that conforms to the OSHA requirements (described in 29 CFR Part 1910.134).
- 2. Dispose of Contaminated Clothing: Discaro clothing and other absorbent material that have been drenched or heavily contaminated with liquid from this product. Do not reuse them
- Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash PPE after each days use.

User Salety Recommendations Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toler.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after haunting this product; Wash the outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZAROS: This pesticide is toxic to fish. Do not contaminate wat equipment washwaters or rinsate. Do not apply directly to water, to areas where surfac to intertidal areas below the mean high-water mark. Do not discharge effluent contain lakes, streams, conds, estuaries, oceans or other waters unless in accordance with t National Pollutant Discharge Elimination System (NPDES) permit and the permittin; notified in writing prior to discharge. Do not discharge effluent containing this produ without previously notifying the local sewage treatment plant authority. For guidance Water Board or Regional Office of the EPA

STATEMENT OF PRACTICAL TREATMENT; Immediately start the procedures given Poison Center, a physician or the nearest hospital. Report the type and extent of an victim's symptoms and follow the advise given. IF ON SKIN: Immediately flush sidn v running water for at least 15 minutes white removing contaminated clothing and shoes. immediately. IF IN EYES: Immediately flush eyes with large amounts of running water to Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. immediately. IF INHALED: Remove to fresh air, if not breathing clear the victim's airwa mouth artificial respiration. If breathing is difficult, give oxygen, preferably with a phymedical attention immediately. IF SWALLOWED: immediately give several glasses induce vomiting. If vomiting does occur, give fluids again. Have a physician determine will permit induction of vomiting or evacuation of stomach. Do not give anything by mou

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal

STORAGE: Do not expose to extreme temperatures. Do not stack more than 4 dru damaged drums should be placed in overpack drums for disposal. Soills should be ab sand and disposed of in a sanitary landfill. Keep container closed when not in use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic, Improper disposal of excess pastic rinsate is a violation of Federal law. If these wastes cannot be disposed of by us instructions, contact your State Pesticide or Environmental Control Agency, or th representative at your EPA Regional Office for guidance

CONTAINER DISPOSAL: Triple rinse or equivalent. Then offer for recycling or recond and dispose of in a sanitary landfill, or by other procedures approved by state and local

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either dir Only protected handlers may be in the area during application. For any requirements sp Tribe, consult the Agency responsible for pesticide requisition,

THIS PRODUCT IS NOT TO BE SOLD OR USED FOR AGRICULTURAL P FOLLOWING COUNTIES OF TEXAS: ATASCOSA, CAMERON, DUVAL, HIDA STARR, WILLACY, ZAPATA

AGRICULTURAL TREATMENT GUIDELINES: Refer to supplemental labeling entitled Furnigant BUSAN 1236" for use directions. Do not apply this product unless the sup

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection 170. This Standard contains requirements for the protection of agricultural worke nurseries and greenhouses and handlers of agricultural pesticides, it contains requir decontamination, notification and emergency assistance. It also contains specifiexceptions pertaining to the statements in this labeling about personal protective exceptions. entry intervals, and notification to workers. The requirements in this box only apply to that are covered by the Worker Protection Standard (WPS). Use this product only in labeling and with the Worker Protection Standard, 40 CFR 170. Refer to supplementations and with the Worker Protection Standard, 40 CFR 170. Refer to supplementations are supplementations and the supplementations are supplementations. 'Agriculture Use Requirements' in the Directions for Use section for information about ENTRY RESTRICTIONS:

Outdoors: Entry (including early entry that would otherwise be permitted under the WP other than a correctly trained and equipped handler who is performing a handling tax tabeling—is PROHIBITED from the start of application until 48 hours after application. are used for the application, non-handler entry is prohibited while tarps are being remo NOTIFICATION: Notify workers of the application by warning them orally and by posting signs. The signs must bear the skulf and crossbones symbols and state: (1) DANGER/ under furnigation, DO NOT ENTER/NO ENTRE, (3) the date and time of furnigation Furnigant in use, and (5) name, address, and telephone number of applicator. Post th signs instead of the WPS sign for this application, but follow all WPS requirements pe

legibility, size and timing of posting and removal. Outdoors: Post the furnigant warning signs at entrances to treated areas

PPE FOR ENTRY DURING THE RESTRICTED PERIOD: PPE for entry that is permit is listed in the Hazards to Humans and Domestic Animals section of the supplementa