

1061  
PM 31  
1448-85

**DIRECTIONS FOR USE**

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

Before applying Busan 1020 always cultivate thoroughly area to be treated, breaking up clods and loosening soil evenly and thoroughly. A week before treatment, mow soil after cultivation to the desired depth; sprinkle or flood irrigate. This step is essential for all methods of use. Immediately before application, cultivate lightly if the soil has crusted. To prevent loss from evaporation, use only at times when air temperature is moderate and there is little wind movement. Soil temperature must be in the range of 60-80°F at a 3 inch depth. For other conditions, see Section "Cultivation & Planting After Application." Do not apply to the soil surface, as in the sprinker method, when air temperature is over 90°F or when low humidity or high winds would cause loss of Busan 1020 before it can be drenched into the soil with additional water. If fumus become unobscured during treatment, apply more water to seal the fumus into the soil where they should be confined to achieve maximum fumigant benefit.

The activity of Busan 1020 is increased by the use of a tarp (plastic, paper, or fabric) spread loosely over the treated area and secured to prevent removal by wind. Keep covered for a minimum period of 48 hours. Seven days after treatment cultivate area to depth of 2 inches to aerate the soil. Do not seed earlier than 21 days after application when tamping method is used.

**USE PROMPTLY AFTER MIXING WITH WATER. DO NOT ALLOW SOLUTION TO STAND.** Flush all equipment with water after each day's use. Disassemble valves and clean carefully.

**CULTIVATION AND PLANTING AFTER APPLICATION**

On well drained soils of light to medium texture which are not excessively wet or cold following application, planting may take place 21 days after treatment. If soils are heavy or especially high in organic matter or remain wet and/or cold (below 60°F) following application of Busan 1020, a minimum interval of 30 days should be observed. Where dosages are greater than 100 gal. per acre, wait at least 60 days. On heavy, wet soils, light surface cultivation to break up crusting and promote drying of soil should be done 5 to 7 days after application. This cultivation may be repeated as necessary. To avoid reentering treated soils, cultural practices should be such that untreated soils are not mixed with treated soils.

**SPECIAL INSTRUCTIONS:** When treating potting soil, or heavier field soils, including soils high in clay or organic matter, it is especially important that the soil be allowed to aerate and dry thoroughly after using Busan 1020. During cold and/or wet weather, frequent shallow cultivations may aid the escape of Busan 1020 from the soil. If in doubt, resample a seedling plant and examine for injury before planting crop.

**USES, APPLICATION METHODS & RATES FOR SHALLOW PESTS IN SEED BEDS, PLANT BEDS, LAWNS AND OTHER LIMITED AREAS:**

**SPRINKLING CAN METHOD:** Place 1 qt. Busan 1020 (1 1/2 pt. on very heavy soils or for deep-rooted weeds) in a sprinking can, fill with water, and sprinkle uniformly over 50 sq. ft. of well-prepared soil. Sprinkle immediately with water until soil is sealed, or tarp for 48 hours.

**HOSE PROPORTIONER METHOD:** Add 1 qt. Busan 1020 to 2 qt. water in a bucket or other container and apply, using a hose proportioner to an area of 100 sq. ft. Sprinkle with water until soil is sealed, or tarp for 48 hours.

**SOIL INJECTION:** Space injection shanks 5 in. apart and inject Busan 1020 4 in. into well prepared soil. Follow immediately with a roller to smooth and compact the soil surface. Light watering or a tarp after rolling helps prevent gas escape. For seedbeds a dosage of 75 to 100 gal. per acre (1 1/2 pt. to 2 pt. per 100 sq. ft.) is recommended.

**ROTARY TILLER:** Spray or sprinkle diluted Busan 1020 immediately in front of tiller. Use 1 qt. Busan 1020 in 2 1/2 gal. water per each 100 sq. ft. Follow immediately with a roller to smooth and compact the soil surface. Light watering or a tarp after rolling will help prevent gas escape.

**FIELD APPLICATION - WHERE ENTIRE AREA IS BEING TREATED:**  
**SOIL INJECTION:** Space thin injection shanks 5 in. apart and inject Busan 1020 4 in. deep into well prepared soil. Follow immediately with a roller to smooth and compact surface. Light watering or a tarp after rolling helps prevent gas escape. For field use, 40 to 100 gal. Busan 1020 per acre is recommended.

**SPRINKLER SYSTEM:** Use 75 to 100 gal. Busan 1020 per acre. For row-crop of shallow roots (top 1 ft. of soil of row), run sprinklers 5 to 10 min. in next 10 to 20 min. after the sprinker system of Busan 1020 is used.



**BUSAN® 1020**

ACTIVE INGREDIENT: Sodium N-methyldithiocarbamate ..... 33%  
INERT INGREDIENTS ..... 67%

TOTAL 100%

This product contains 3.1 lb. of active ingredient per gallon and weighs 9.5 lb. per gallon.

Manufactured by

**Buckman Laboratories, Inc.**  
Memphis, Tennessee 38108, U.S.A.

NET CONTENTS: AS MARKED ON CONTAINER

EPA Reg. No. 1448-85

EPA Est. 1448-TN-1

**KEEP OUT OF REACH OF CHILDREN  
WARNING**

**STATEMENT OF PRACTICAL TREATMENT**

In case of skin contact, wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. If product gets in the eyes, flush immediately with copious amounts of clean, cool water for at least 15 minutes. Get medical attention immediately. If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS**

**WARNING:** Harmful if swallowed. May be fatal if absorbed through the skin. Irritating to eyes and skin. Do not get in eyes, on skin, or on clothing. Wear goggles and rubber gloves when handling. Avoid contamination of food or feed.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not apply directly to lakes, streams, or ponds. Permits may be required for discharges containing this pesticide into lakes, streams, ponds, or public water. For guidance, contact the regional office of the Environmental Protection Agency.

**PRODUCT INFORMATION**

Busan 1020 is a water soluble liquid. When applied to properly prepared soil, the liquid is converted into a gaseous fumigant. After sufficient interval of time, the gas dissipates leaving the soil ready for planting. Busan 1020 is recommended for the control of the following soil-borne pests that attack ornamental, food and fibre crops: Weeds and germinating weed seeds (annual bluegrass, barnyardgrass, chickweed, dandelion, spigweed, herb, lambquarters, Amaranthus sp. (pigweed, careless weed), vetivergrass, Johnsongrass, nutgrass, wild morningglory, and purslane), nematodes, and soil-borne diseases (Rhizoctonia, Pythium, Phytophthora, Verticillium, Sclerotinia, Oak root fungus and club root of crucifers).

**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 without adequate ventilation OR where fumus may enter nearby houses containing growing plants. Do not use in greenhouses where desirable plants are present. Keep container tightly closed when not in use. See side panels for directions for use.

**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 four drums high. Leaking or damaged drums should be placed in overpack drums for disposal. Solids should be absorbed in absorbent 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.

for the area covered. For control of weeds deeper than 18 in. in the soil, divide Busan 1020 into 2 or more equal parts and apply at intervals during the springing period.

**CHECK ON FLOOD IRRIGATION:** Meter Busan 1020 at a steady rate into water during irrigation. Use 80 to 100 gal. Busan 1020 per acre, depending upon the kind of pest and depth desired, in 3 to 18 inches of water per acre.

**FIELD APPLICATION TO BEDS OR ROWS:**

**SOIL INJECTION:** Busan 1020 may be injected into pre-formed plant beds following the directions given above under soil injection. If a wider treated band is desired, space 2 or more shanks at intervals of 5 in. to cover the desired treating width. Tarp immediately.

**SOIL COVERING METHODS:** (Used over method.) Busan 1020 may be sprayed or dripped onto the soil immediately ahead of bed-shaping equipment. Cover the Busan 1020 with soil to a depth of 3 to 6 inches. The soil should be rolled and compacted immediately. The recommended rate of Busan 1020 is 80 to 100 gal. per acre, approximately equivalent to 1 to 2 shanks per 100 sq. ft. of 12-inch row.

**TREATMENT OF TREE REPLANT SITES:** After removing stumps or diseased trees and its stumps from the root system as usually, water a shallow basin over the planting site. Add Busan 1020 to the stream of water while filling the basin. Use 1 qt. Busan 1020 per 100 sq. ft. in sufficient water (depending on soil type) to penetrate to least 6 ft. For control of oak root fungus, use a basin at least 30 x 20 ft. square. Increase dosage to 2 qt. Busan 1020 per 100 sq. ft. in sufficient water to penetrate to the depth of root system. If water is tanked to the planting site, add Busan 1020 to the water and mix before filling basin.

**TREATMENT OF POTTING SOIL:**

**A. SPRINKLE METHOD:**

1. Spread soil in a smooth layer 4 inches high on concrete or on prepared soil.
2. Sprinkle Busan 1020 at rate of 1 pint in 5 gallons of water per 100 sq. ft. of surface area.
3. Layers can be treated one on top of another.
4. Sprinkle too heavy with sufficient additional water to seal the surface, or cover with tarp (plastic, kraft paper, etc.).

**B. CEMENT MIXER:**

1. Add Busan 1020 to soil mix at rate of 1 lb. of Busan 1020 per 2 cu. ft. of soil, in cement or similar mixer. Mix thoroughly.
2. After soil is treated and piled, sprinkle water over entire surface to seal in gas. Or, cover with tarp (plastic, kraft paper, etc.).

**C. SHREDDER:**

1. Distribute Busan 1020 in sufficient water to obtain even distribution. As soil is ejected from shredder, spray uniformly on soil stream at rate of 1 lb. of Busan 1020 per 2 cu. ft. of soil.
2. After soil is treated and piled, apply light water seal to entire surface or cover with tarp.

**TOBACCO PLANT BEDS:** Full applications are recommended wherever possible. Read and follow DIRECTIONS FOR USE carefully. Treatment in the South should generally be made before November 30.

**A. TARP METHOD:** Prepare the bed 5 to 7 days before application to ensure best conditions for weed seed germination and fumigant action of Busan 1020. The bed should be free of clods, level and in good shape. Apply 1 to 1 1/2 gal. of Busan 1020 in a minimum of 40 gal. of water per 100 sq. yds. Apply uniformly over the entire bed. Cover the bed immediately with a plastic cover. Keep covered no less than one day, but no more than two days. The cover need not be tented, but should be secured to prevent wind from uncovering the treated area. Seven days after date of Busan 1020 application, loosen the treated soil to a depth of 2 inches. Do not seed tobacco earlier than 21 days after Busan 1020 application.

**B. DRENCH METHOD:** Apply 2 1/2 gal. Busan 1020 in 180 to 200 gal. of water per 100 sq. yd. Application may be made with sprinklers, sprayers with nozzles or any suitable equipment. Follow directions given above for seed bed treatment.

**POTATO FIELDS:** For use in sprinkler systems to control nematodes, use 50 to 100 gal. Busan 1020 per acre. Inject into the sprinkler system all Busan 1020 intended for the area covered. Apply a minimum of one acre inch of water. Use only sprinkler systems that give large droplets to prevent excessive loss. Apply only through central pivot or solid jet sprinkler irrigation systems containing filtration and check valves which will prevent water suction contamination and overflow of the slurry tank. The systems must also contain interlocking controls between the rotating device and the water pump to insure simultaneous shut-off. Soil temperature should be in the range of 40-80°F. Busan 1020 will control nematodes which are in the fumigated zone at time of treatment.

ACCEPTED

OCT 22 1985

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1448-85

NOTE: This label has been reduced 64%.