

**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 deeply and thoroughly. A week before treatment, loosen soil after cultivation to the desired depth, sprays 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 5/8-in. 1020 before it can be drenched into the soil with additional water. If fumes become unpleasant during treatment, apply more water to seal the fumes 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 tarping method is used.

**USE PROMPTLY AFTER MIXING WITH WATER. DO NOT ALLOW SOLUTION TO STAND.** Wash 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 14 to 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 drainage is 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 the soil should be done 5 to 7 days after application. This cultivation may be repeated as necessary. To avoid reinfesting 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, transplant a seedling plant and examine for injury before planting crop.

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

**SPRINKLING CAN METHOD:** Place 1 pt. Busan 1020 (1 1/2 pt. on very heavy soils or for deep rooted weeds) in a sprinkling 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 3 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 acre 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 injection shanks 5 in. apart and inject Busan 1020 4 in. in a 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, 60 to 100 gal. Busan 1020 per acre is recommended.

**SPRINKLER SYSTEM:** Use only those sprinkler systems which give large water droplets to prevent excessive loss. Use 75 to 100 gal. Busan 1020 per acre. For control of shallow pests (top 1 ft. or less of soil), run sprinklers 5 to 10 min. In next 10 to 20 min. inject into the



# BUSAN® 1020

ACTIVE INGREDIENT: Sodium N-methyldithiocarbamate ..... 33%  
INERT INGREDIENTS ..... 67%  
TOTAL 100%

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

NET CONTENTS: AS MARKED ON CONTAINER

EPA Reg. No. 1448-B6

EPA Est. 1448-TN-1

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

**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**  
**CAUTION**

Harmful if swallowed. 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. Keep out of lakes, streams, or ponds. Permits may be required for discharge 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 ornamentals, food and fiber crops: Weeds and germinating weed seeds (annual bluegrass, Bar nutgrass, chickweed, dandelion, ragweed, henbit, lambs quarters, Amaranthus sp. (pigweed, Canada weed), watergrass, Johnsongrass, nutgrass, wild morningglory, and purslane), nematodes, and soil borne diseases (Rhizoctonia, Pythium, Phytophthora, Verticillium, Sclerotinia, Oak root fungus and club root of cucurbits).

**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 fumes may enter nearby houses containing growing plants. Do not use in greenhouses where desirable plants are present. Keep containers tightly closed when not in use. See side panels for directions for use.

**STORAGE AND DISPOSAL**

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinse water that cannot be used according to label directions must be disposed of according to applicable Federal, state, or local procedure. **CONTAINER DISPOSAL:** Treat (reuse or equivalent) then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other approved state and local procedure.

sprinkler system at Busan 1020 needed for the area covered. On very light soils keep surface moist by sprinkling for 2 or 3 days. For control of pests deeper than 18 in. in the soil, divide Busan 1020 into 3 or more equal parts and apply at intervals during the sprinkling period.

**CHECK OR FLOOD IRRIGATION:** Meter Busan 1020 at a steady rate into water during irrigation. Use 50 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 water treated band is desired, space 2 or more shanks at intervals of 5 in. to cover the desired treating width. Roll immediately.

**SOIL COVERING METHODS (Bed-over methods):** 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 50 to 100 gal. per acre, approximately equivalent to 1 to 2 parts per 100 ft. of 12 inch row.

**TREATMENT OF TREE REPLANT SITES:** After removing dead or diseased trees and as much of the root system as possible, make 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 at least 6 in. For control of soil root fungus, and a basin at least 20 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 pre-treated soil.
2. Sprinkle Busan 1020 at rate of 1 pint in 6 gallons of water per 100 sq. ft. of surface area.
3. Layers can be treated one on top of another.
4. Sprinkle top layer with sufficient additional water to seal the surface, or cover with tarp (plastic, kraft paper, etc.).

**B. CEMENT METHOD:**

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

**C. SHREDDER:**

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

**TOBACCO PLANT BEDS:** Fall 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 150 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 in the fall, use 50 to 100 gal. Busan 1020 per acre. Inject into the sprinkler system at Busan 1020 needed for the area covered. Apply a minimum of one acre inch of water. On very light soils keep surface moist by sprinkling periodically for 2 to 3 days. Use only sprinker systems that give large droplets to prevent excessive loss. Apply only through central pivot irrigation systems containing antiphosphon and check valves which will prevent water source contamination and overflow of the slurry tank. The systems must also contain interlocking controls between the measuring device and the water pump to insure simultaneous shut off.

64% of original size

NOV 23 1982

Under the Patent Infringement  
Fund, filed in  
1982, No. 1448-B6  
1448-B6