



# ROYAL<sup>®</sup> FUME

## SOIL FUMIGANT

To control many weeds, grasses, nematodes and insect pests in plant beds and nurseries

ACTIVE INGREDIENTS	.....	70%
Methyl bromide	..... 68.6%	
Chloropicrin	..... 1.4%	
INERT INGREDIENTS	.....	30%
	Total	100%



DANGER



KEEP OUT OF REACH OF CHILDREN  
POISON

Do Not Inhale Vapors • See Antidote & Warnings On Side Panel  
Do Not Use Near Spills or Store Near Heat or Open Flame.

Formulated and Packaged By  
**Southern Agricultural Chemicals, Inc.**  
KINGSTREE, SOUTH CAROLINA

LOT NO. \_\_\_\_\_

NET WEIGHT \_\_\_\_\_ LBS.

EPA Reg. No. \_\_\_\_\_

Registered Trade Mark of Southern Agricultural Chemicals, Inc.

Use Royal Fume soil fumigant for pre-planting application in soil for control of nematodes, insects, and weeds in nurseries and in certain seed beds and field crop areas. Typical pests controlled include nematodes, root-knot lesion, dagger, stunt, spiral, and other diseases, sting, pin, and certain other species of weeds, such as crabgrass, guinea grass, and other weeds. Royal Fume will give excellent performance in fruit and flower trees, 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 food.

### FUMIGATION DIRECTIONS RECOMMENDED APPLICATION RATES

USE	Lbs/Acre
Seed and Plant beds	20-1000
Tomato, tobacco, forest trees, vegetable (for the production of transplants only)	20-1000
Strawberries and Tomatoes	20-1000
Soils for non-food use	20-1000
(Turf, floral crops, ornamental nurseries, etc.)	

**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, 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 inch level. Pretreatment tillage to a depth of 12 to 18 inches often improves results, especially in heavy or muck soils.

### APPLICATION INSTRUCTIONS

Apply by means of chisels spaced not more than 24 inches apart set at a depth of 4 to 6 inches. Use at the higher rate in heavy soils, soils with high organic content, or when soil temperatures are low. Cover with polyethylene or other gas-tight sheeting as soon as possible after final application.

### EXPOSURE PERIOD AFTER APPLICATION

For soil temperatures above 60° F. cover the treated area covered for at least 48 hours to allow 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 full applications where the covers are left on all winter.

### WHEN TO PLANT AFTER THE EXPOSURE PERIOD

Crops can usually be seeded 2 to 4 days after the covers are removed. For transplants aerate the soil 2 to 3 inches prior to planting. **NOTE:** To avoid the possibility of seedling from seed tolerance, allow an incubation period of at least 2 weeks when that part of the straw, mulch, and other material for crop production are set in the seed bed. If soil temperature is low (45° F. or lower) at the time of sowing, delay sowing or planting until the soil is at a tillable condition with suitable moisture and temperature for good plant growth.

**PRECAUTIONS:** Do not use in areas where high humidity has been experienced or conditions highly stagnant, such as in ornamental roses, and certain other plants. If there is a possibility of a small amount of fumigant being released to the atmosphere...

The fumigant may be harmful to living plants. Keep people of age at least 14 meters from drip line. Do not apply to areas containing living roots of the plant. Fumigated areas should be protected from flooding or watering by wooden frame or benches to prevent flooding or watering. Recontamination of footwear or equipment should be kept to a minimum.

**PERSONAL PROTECTION:** When necessary to enter an atmosphere of Royal Fume use full face respirator with black canister designed for organic vapors.

**POISON DANGER**

MAY BURN SKIN AND EYES  
POISONOUS IF INHALED  
HARMFUL OR FATAL IF SWALLOWED  
Do Not Breathe Vapor  
Do Not Get in Eyes, on Skin or Clothing

Remove clothing immediately if it becomes wet with vapor. Wash skin for at least 15 minutes and get medical attention for eyes, contact with fumigant spilled on clothing or skin. Wash clothing immediately and thoroughly. Do not reuse clothing. Wash face of all contact matter. Do not wear gloves when handling or using this material.

### POISON

See Your Doctor In Case of Poisoning

**ANTIDOTE:** Remove patient to fresh air. Keep patient lying down and warm. Use artificial respiration in breathing has stopped. Call medical attention. Oxygen inhalation should be used only at direction of physician.

### NOTICE

Following soil fumigation, undesirable concentrations of chloropicrin may drift to nearby areas. If this occurs, immediately cover treated area with a plastic tarpaulin. Leave tarpaulin on overnight and remove during the daytime. Recover the area if eye irritation indicates that the undesirable concentration is continuing. These concentrations are most likely to occur in the evening or at night when the air is most likely to be static in movement. Do not make application of BROM-O-SOL when there is little or no movement or there is an inversion condition in the atmosphere.

This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this product only as specified on this label.

**NOTE CAREFULLY:** Following fumigation, the level of soluble salts and ammonia nitrogen may be raised. This is most likely to occur when heavy rates of fumigant and fertilizers are applied to soils that are either acid, wet, cold, or high in organic matter. Fertilizers containing ammonium salts should not be used. Apply only fertilizers containing nitrates until after the crop is well established and the soil temperature is above 65° F. in order to avoid ammonia injury, nitrate starvation, or both. After fumigation, fertilize as indicated by soil test to protect against injury to plant roots. It is best that highly acid soils be limed before application to stimulate nitrification and reduce the possibility of ammonia toxicity.

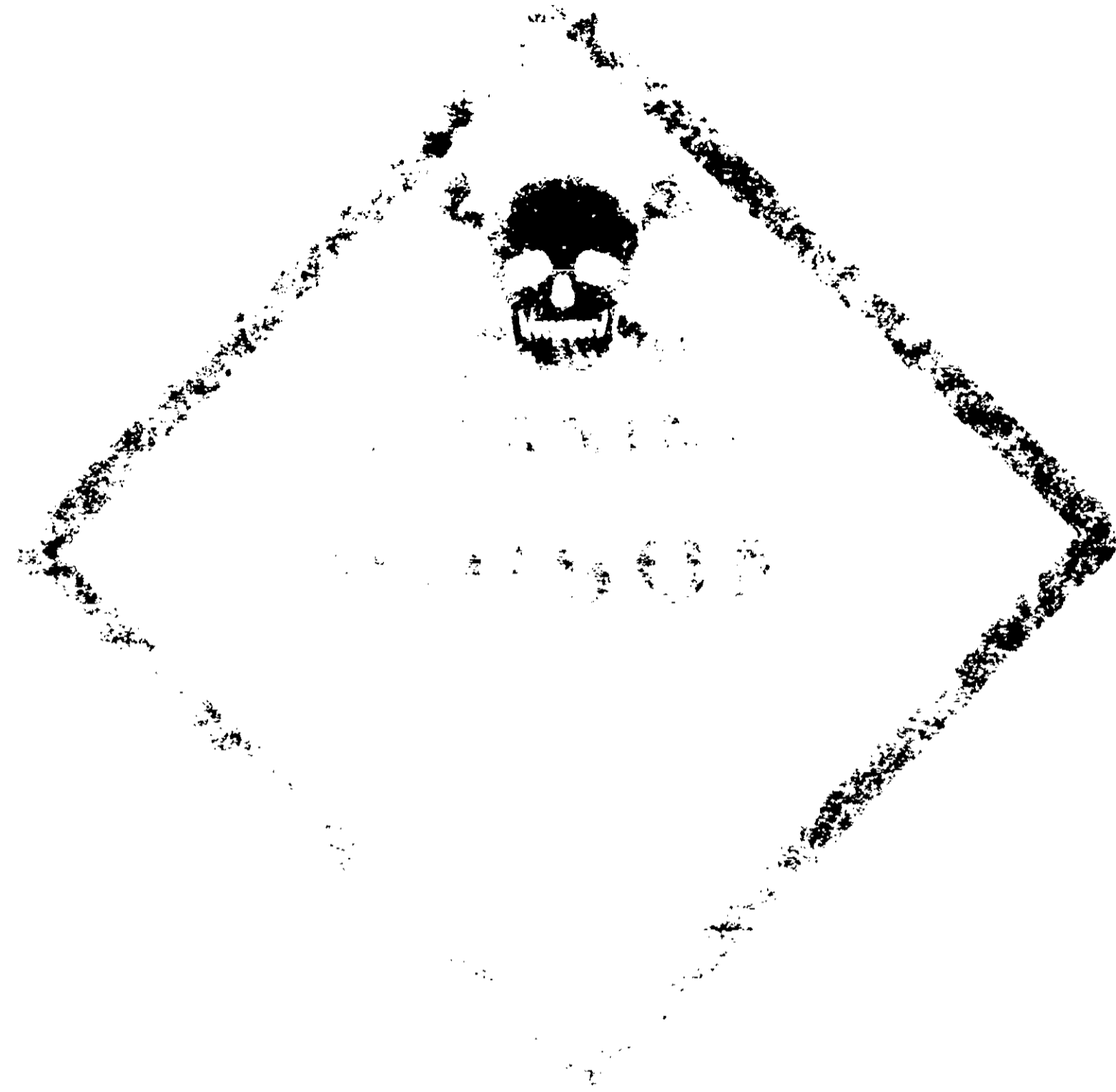
EPA Reg No 3743-337  
EPA EST No. 3743-SG-1

Residue on the plants has established on raw agricultural there is no residue on "Directions" are should not leave chemicals assumes no residues

and is reasonably fit with directions under warranty of merchantability, extends to the use conditions, or under the risk of any

Southern Agricultural Chemicals office if questions

3743-337



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### ACTIVE INGREDIENTS

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68.6

Chloropicrin

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### INERT INGREDIENTS

Total

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Many pesticides, when used in excess, may remain on the plants to which they are applied. The U.S. Food and Drug Administration has established maximum amounts of such pesticides, known as residues, that may remain on raw agricultural products at harvest, and it is the user's responsibility to see that there is no residue in excess of that permitted in excess of these amounts. The Fumigation Directions are based on the best available information and if followed carefully should not leave excessive residues at harvest. However, Southern Agricultural Chemicals, Inc. does not warrant that there will be no residues at harvest or that the fumigation will be effective.

Southern Agricultural Chemicals, Inc. warrants that the fumigant will be effective against the pests named on the label when used in accordance with the directions on the label. This warranty does not extend to any other pests or conditions. The warranty does not extend to any other pests or conditions. The warranty does not extend to any other pests or conditions. The warranty does not extend to any other pests or conditions.

Preparation and use of this fumigant should be in accordance with the directions on the label. The fumigant is a highly toxic material and should be handled with care. The fumigant is a highly toxic material and should be handled with care.

FUMIGATION RECOMMENDED APP

APPLICATION

EXPOSURE PERIOD

WHEN TO PLANT AFTER

