

PM 25 400-454 1047

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (S-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 400-454	DATE OF ISSUANCE 3/12/93
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT TUBACID 1F	

NOTICE OF PESTICIDE: ☐ REGISTRATION
☐ REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

UNION PACIFIC CHEMICAL CO., INC.
7400 N. 10th St.
MILWAUKEE, WI 53224-0001

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is additionally registered as a pesticide under the Federal Insecticide, Fungicide, and Rodenticide Act.

1. Submit to the Administrator for review and approval all proposed changes to the labeling of this product. The Administrator will advise you of any necessary changes to the labeling. You must submit such changes to the Administrator before you release the product for sale.

2. Make the labeling changes listed below before you release the product for sale:

a. Change the name of the product to "TUBACID 1F".

3. Submit five (5) copies of your final print labeling before you release the product for sale. Refer to the A-74 enclosure for a further description of the labeling and labeling.

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☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE
3/12/93

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If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

RD:RTaylor:eja:3/12/93:3056800

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TURFCIDE® 4F

TURF & ORNAMENTAL
SOIL FUNGICIDE

**UNIROYAL
CHEMICAL**

ACCEPTED

MAR 12 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 400-454

COMPOSITION

Active ingredient: (% by weight)	
Pentachloronitrobenzene (PCNB)	40.0%
Inert ingredients:	60.0%
TOTAL	100.0%

Contains 4 lbs. of Pentachloronitrobenzene per U.S. gallon
UNIROYAL CHEMICAL COMPANY, INC., Middlebury, Connecticut 06749
EPA EST. NO. 7874-CT-1

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Net Contents:

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS
AND DOMESTIC ANIMALS

CAUTION

Causes eye irritation. Harmful if inhaled. The following protective clothing are required during mixing/loading operations: respirator, gloves, long-sleeved shirt, long pants, shoes and socks. Avoid contact with eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwaters.

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DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system.

Do not plant root crops in PCNB treated fields within 12 months of broadcast and banding applications unless PCNB is registered for use on those crops.

GENERAL INFORMATION

TURFCIDE 4F is a preventative fungicide recommended for control of certain soil borne diseases of turf and ornamental crops.

Best results are achieved when used in a preventative program following recommended rates and application directions.

Carefully read, understand and follow label directions.

LAWNS AND TURF

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TURFCIDE 4F is a fungicide for the prevention and control of certain soil borne diseases on golf courses, sod farms, home lawns and institutional areas where turf is grown. Best results are obtained when TURFCIDE 4F is used as a preventative application before diseases appear, however, if you do not apply as a preventative treatment, TURFCIDE 4F should be applied at first sign of disease. Areas treated with TURFCIDE 4F should be watered following application to move material down to the soil level.

If treated area is subjected to flooding or unusually heavy rainfall, or if disease is severe or reappears, the area should be treated again. See use and rate recommendations for retreatment intervals. Do not graze treated areas or feed clippings to livestock. Under certain growing conditions, a temporary discoloration of the grass may occur. This causes no harm and will disappear in a short time.

USE AND RATE RECOMMENDATIONS FOR TURF

DISEASE	TURF TYPE	FL. OZS. PER 1000 SQ. FT.	APPLICATION NOTES
Brown Patch (<i>Rhizoctonia solani</i>)	Warm climate grasses such as: St. Augustine Bermuda	24	Mix specified amount in 10-15 gals. of water and apply a single application in the spring or fall or at first indication of disease. If disease is severe or reappears, area should be retreated 3-4 weeks later.
	Dichondra	24	Mix specified amount in 40 gals. of water and treat as above.
	Cool climate grasses such as: Bluegrass Ryegrass Fescue Bent	4 1/2 - 6	Mix specified amount in 3-6 gals. of water and apply at first sign of disease. Repeat every 7 to 10 days during warm, damp weather. For control of existing infections, apply at higher rates as soon as symptoms appear.
Melting Out / Leaf Spot * (<i>Drechslera</i> spp., formerly <i>Helminthosporium</i> spp.)	All	10 1/2 - 15	Mix specified amount in 5-10 gals. of water and apply as a preventative application in the spring or fall of each year. For control of existing infections, apply at higher rates as soon as symptoms appear. If disease is severe or reappears, area should be retreated 3-4 weeks later.
Dollar Spot * (<i>Sclerotinia homoeocarpa</i>)			
Gray Snow Mold (<i>Typhula incarnata</i>) Pink Snow Mold (<i>Fusarium nivale</i>)	Cool climate grasses	12	Mix specified amount in 5-10 gals. of water and apply one application prior to first snowfall.

* DO NOT USE IN CALIFORNIA

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ORNAMENTALS

TURFCIDE 4F can be used as a soil treatment for protection against a variety of soil borne diseases of ornamentals grown in greenhouses, shadehouses, nurseries and interiorscapes.

The mixture of TURFCIDE 4F and water should be continuously agitated to assure uniform application.

It is important that the mixture of TURFCIDE 4F and water be drenched or incorporated thoroughly into the soil for best results.

See use and rate recommendations for specific plants and diseases.

When a rate range is shown, the lower rate should be used on lighter or coarse textured soils or when disease pressure is expected to be low.

The higher rates should be used on heavy or fine textured soils in fields with a history of disease problems, or when

weather conditions are expected to be unfavorable for rapid germination and growth of seedlings.

DISEASES CONTROLLED

Causal Agent*	Common Name
<i>Botrytis cinerea</i>	Storage Rot
<i>Dothistroma pini</i>	Needle Blight
<i>Ovulinia azaleae</i>	Azalea Petal Blight
<i>Pellicularia filamentosa</i>	Root Rot / Stem Rot
<i>Pellicularia rolfsii</i>	Bulb Rot / Crown Rot
<i>Rhizoctonia solani</i>	Root Rot / Stem Rot
<i>Rhizoctonia</i> spp.	Root Rot / Stem Rot
<i>Sclerotinia camelliae</i>	Camellia Flower Blight
<i>Sclerotinia gladioli</i>	Dry Rot
<i>Sclerotinia sclerotiorum</i>	Stem Rot / Black Rot
<i>Sclerotium rolfsii</i>	Bulb Rot / Crown Rot
<i>Stromatinia gladioli</i>	Dry Rot

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CROP	DISEASE	PINTS OF TURFCIDE 4F	APPLICATION NOTES																													
Bedding Plants Flowering Plants Foliage Plants Woody Plants	Root / Stem Rot, Damping Off (<i>Rhizoctonia solani</i>) (<i>Pellicularia filamentosa</i>)	1/2 - 3/4	SOIL DRENCH AT SEEDING OR TRANSPLANTING IN THE NURSERY OR GREENHOUSE: Mix specified amount in 100 gals. of water and apply according to the following guidelines: For Bed and Bench Grown Plants: <table><tr><th>Soil Depth (inches)</th><th colspan="2">Coverage for TURFCIDE 4F Drench Mix</th></tr><tr><th></th><th>Fl.oz./ Sq.ft.</th><th>Sq.ft./ 100 gals.</th></tr><tr><td>2 or less</td><td>16</td><td>800</td></tr><tr><td>3</td><td>24</td><td>530</td></tr><tr><td>4 or more</td><td>32</td><td>400</td></tr></table> For Container Grown Plants: <table><tr><th>Pot Diameter (inches)</th><th>Minimum Drench Volume (fl.oz./pot)</th></tr><tr><td>4</td><td>1.5</td></tr><tr><td>5</td><td>3</td></tr><tr><td>6</td><td>4</td></tr><tr><td>8</td><td>7</td></tr><tr><td>10</td><td>13</td></tr><tr><td>12</td><td>18</td></tr></table> One repeat application may be made 4 to 6 weeks later, if necessary.	Soil Depth (inches)	Coverage for TURFCIDE 4F Drench Mix			Fl.oz./ Sq.ft.	Sq.ft./ 100 gals.	2 or less	16	800	3	24	530	4 or more	32	400	Pot Diameter (inches)	Minimum Drench Volume (fl.oz./pot)	4	1.5	5	3	6	4	8	7	10	13	12	18
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4	1.5																															
5	3																															
6	4																															
8	7																															
10	13																															
12	18																															
	Stem Rot (<i>Sclerotinia sclerotiorum</i>)	5 1/4	BROADCAST INCORPORATED PRIOR TO PLANTING IN THE FIELD: Apply specified amount to 1000 sq.ft. in sufficient water to assure uniform ground coverage. Thoroughly incorporate to a depth of 4 inches.																													
Azaleas	Azalea Petal Blight (<i>Ovulinia azaleae</i>)	1 1/2	GROUND SPRAY ON ESTABLISHED PLANTS: Apply specified amount to 150 sq.ft in sufficient water to assure uniform ground coverage. Apply to ground beneath the bushes and immediate surrounding area. Begin application prior to opening of buds and repeat every 3-4 weeks through bloom period.																													
Camellias	Camellia Flower Blight (<i>Sclerotinia camelliae</i>)																															
Scincis (bulbous) Narcissus Tulip	Root Rot/ Stem Rot/ Bulb Rot (<i>Rhizoctonia solani</i>) (<i>Pellicularia solani</i>) Bulb Rot / Crown Rot (<i>Sclerotium rolfsii</i>) (<i>Pellicularia rolfsii</i>) Black Rot (<i>Sclerotinia sclerotiorum</i>)	5 - 6 3/4	BROADCAST INCORPORATED PRIOR TO PLANTING: Apply specified amount to 1000 sq.ft in sufficient water to insure uniform ground coverage. Thoroughly incorporate to a depth of 6 to 7 inches. NOTE: For bulbous iris, use 5 - 7 pints per 1000 sq. ft. and incorporate to a depth of 2 - 3 inches. Use lower rate for coarse textured (light) soils and higher rate for fine textured (heavy) soils.																													
		6 3/4 - 9	IN-FURROW APPLICATION AT PLANTING: Apply specified amount to 1000 linear ft. of row in 5 to 10 gals. of water. Direct spray into open furrow to thoroughly cover entire furrow and bulbs. Close furrow in normal manner. Use lower rate for coarse textured (light) soils and higher rate for fine textured (heavy) soils. For Black Rot control, use higher rate.																													

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CROP	DISEASE	PINTS OF TURFCIDE 4F	APPLICATION NOTES
Hyacinth Iris (bulbous) Narcissus Tulips (continued)	Root Rot/ Stem Rot/ Bulb Rot (<i>Rhizoctonia solani</i>) (<i>Pellicularia solani</i>)	3	BULB SOAK: Mix specified amount in 3.2 gals. of water (7.5% concentration). Add 1% sticker to mixture and maintain good agitation. Soak bulbs for 5 minutes.
	Bulb Rot / Crown Rot (<i>Sclerotium rolfsii</i>) (<i>Pellicularia rolfsii</i>) Stem Rot / Black Rot (<i>Sclerotinia sclerotiorum</i>)	3/4	BAND APPLICATION PRIOR TO PLANTING: Apply specified amount to 1000 linear ft. as a 12 inch band spray centered on the row at planting time. Follow with 3 additional applications at 15 day intervals.
Gladiolus	Dry Rot (<i>Stromatinia gladioli</i>) (<i>Sclerotinia gladioli</i>)	5 1/2	BROADCAST APPLICATION PRIOR TO PLANTING: Apply specified amount to 1000 sq.ft. in sufficient water to insure uniform ground coverage. Thoroughly incorporate to a depth of 4 to 6 inches. Bulbs may be planted immediately after incorporation.
		8 1/4	BAND APPLICATION PRIOR TO PLANTING: Apply specified amount to 1000 linear ft. as a 12 inch band centered on the row. Thoroughly incorporate to a depth of 4 inches. Bulbs may be planted immediately after incorporation.
Lilies (Easter) (Asiatic) (Oriental)	Root Rot / Stem Rot (<i>Rhizoctonia solani</i>) (<i>Pellicularia filamentosa</i>) Bulb Rot / Crown Rot (<i>Sclerotium rolfsii</i>) (<i>Pellicularia rolfsii</i>) Stem Rot / Black Rot (<i>Sclerotinia sclerotiorum</i>)	5 - 9 3/4	BROADCAST INCORPORATION PRIOR TO PLANTING: Apply specified amount to 1000 sq.ft. in sufficient water to assure uniform ground coverage. Thoroughly incorporate to a depth of 6 to 7 inches. Use lower rate for coarse textured (light) soils and higher rate for fine textured (heavy) soil.
		6 3/4 - 9	IN-FURROW APPLICATION AT PLANTING: Apply specified amount to 1000 linear ft. of row in 5 to 10 gals. of water. Direct spray into open furrow to thoroughly cover entire furrow and bulbs. Close furrow in normal manner. Use lower rate for coarse textured (light) soils and higher rate for fine textured (heavy) soils.
		6 - 9	BULB SOAK: Mix specified amount in 100 gals. of water. A sticking agent may be added. Maintain good agitation in dip tanks. Soak bulbs in mixture for 5-15 minutes.
Magnolia grandiflora	Magnolia Leaf Spot (<i>Phyllostica cookeri</i>)	3	FOLIAR SPRAY APPLICATION: Apply specified amount in 100 gallons of water. Add a spreader-sticker at the rate of 1 pint per 100 gallons. Begin applications approximately 1 week before disease normally appears. substituted for the dip. Apply at least 4 sprays at 2 week intervals. NOTE: Do not use on Magnolia fuscata as injury may result.
Roses	Storage Rot (<i>Botrytis cinerea</i>)	1 1/2 - 3	DIP APPLICATION: Mix specified amount in 100 gallons of water. Maintain good agitation in dip tanks. Dip dormant roses in solution prior to storage.
		3	SPRAY APPLICATION: Mix specified amount in 100 gallons of water. Thoroughly spray dormant roses prior to storage.
Southern Pine Seedlings	Root / Stem Rot, Damping Off (<i>Rhizoctonia</i> spp.) (<i>Pellicularia filamentosa</i>) Needle Blight (<i>Oothostroma pini</i>)	1 3/4	BROADCAST APPLICATION PRIOR TO PLANTING: Apply specified amount to 1000 sq.ft. in sufficient water to insure uniform ground coverage. An additional 1/2 inch of water should be applied by irrigation following treatment. Seed may be planted immediately following irrigation or within one week of this date.

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PLANT TOLERANCE:

Neither the manufacturer nor the seller has determined whether or not TURFCIDE 4F can be used safely on ornamental plants not specified on this label. Prior to any large scale application on such plants, the user should determine the safety of TURFCIDE 4F fungicide by testing a small number of the type of plants to be treated at the recommended rates for that particular group, i.e., bedding plants, foliage, etc, and observing the treated plants over a one to two week period for symptoms of phytotoxicity, which may occur as foliage burn or stunted growth. The user assumes all risks arising out of application to unlabelled plants.

IMPORTANT NOTICE- Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty of merchantability or fitness for a particular purpose, express 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.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not reuse empty containers. Do not contaminate water, food or feed by storage or disposal.

STORAGE: Keep container closed when not in use. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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