

34911-13

03/28/2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Hi Yield Chemical Co.
c/o Ms. Mary Beth Endres
Brazos Associates, Inc.
2001 Diamond Ridge Drive
Carrollton, TX 75010-4509

MAR 28 2002

Dear Ms. Endres:

Subject: Amendment - Comply with 2000 Diazinon MOA;
Delete Celery;
Update First Aid per PR Notice 2001-1; and
Update CSF/replacement diazinon source
Hi-Yield 5% Diazinon Insect Killer Granules
EPA Registration Number 34911-13
Your submission dated September 11, 2001

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. On the front panel claims, revise "..and others" to read "..and others as listed in the Directions For Use".
 - b. On page 1, in the ingredients statement, revise ACTIVE INGREDIENTS to ACTIVE INGREDIENT, since there is only one.
 - c. on page 2, slightly revise the limitation appearing under the heading Directions For Use so that it reads "Reformulation or repackaging of this product is prohibited."
 - d. On page 5, in the first sentence of the directions for Fire Ants, revise "lawns" to read "home lawns".
 - e. On page 6, under the heading VEGETABLES - INSECT CONTROL, revise "Do not apply this product to food crops grown in greenhouses." to read "Do not apply this product in greenhouses."

- f. On page 7, under the crop listing "Cabbage", delete "(bok choy and napa)".
 - g. On page 12, for Sweet Potatoes, delete the pest "Flea Beetles". Pre-plant soil application of diazinon will not control this foliar pest.
 - h. Update the Storage and Disposal direction in accordance with PR notice 2001-6.
 - i. Also in the Environmental hazards text, replace the sentence beginning "Do not apply directly to water, to areas where..." with just "Do not apply directly to water."
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.
 4. Comply with all applicable provisions of the 2000 Memorandum of Agreement Regarding Pesticide Products Containing Diazinon (i.e., the Diazinon MOA). In accordance with the Diazinon MOA you have requested the following revisions to the conditions of registration for this diazinon product with outdoor non-agricultural (i.e., home and garden) uses:
 - a. You have requested under section 6(f) of FIFRA that this registration be voluntarily canceled on a date not later than December 31, 2004.
 - b. You may not manufacture, label, or release for shipment this product after June 30, 2003.
 - c. You may not sell or distribute this product after August 31, 2003.
 - d. The registration for this product shall expire and be canceled on December 31, 2004.
 - e. You will send to every person who directly purchases this product (i.e., to every seller) a notification of Product Recovery Program to be conducted by Syngenta and Makhteshim after December 31, 2004.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

The Basic Confidential Statement of Formula (CSF) dated September 11, 2001 which identifies a replacement diazinon source Manufacturing Use Product is acceptable and has been added to this product's registration file.

Sincerely,

George T. LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

[FRONT PANEL]

This product must not be used on golf courses and sod farms.

Hi-Yield®
5% Diazinon Insect Killer Granules
Lawn & Garden Insect Control

- For outdoor use on the home lawn and in the home garden only.
- Ready to use Granules. Contains 5% Diazinon insecticide.
- Treats up to 5000 square feet.

ACCEPTED
with COMMENTS
In EPA Letter Dated:
MAR 28 2002

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
34911-13

Hi-Yield® 5% Diazinon Insect Killer Granules kill:

- Ants, Armyworms, Bermudagrass mites
- Billbugs, Brown dog ticks
- Chiggers, Chinch bugs
- Crickets, Cutworms
- Earwigs, Fire ants*
- Fleas, Onion maggots
- Root maggots, Sod webworms
- White grubs of:
 - European chafer
 - Japanese beetle
 - Southern chafer
- Wireworms
- ...and others
- *Aids in control

See Directions for Use

ACTIVE INGREDIENTS:

Diazinon: O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate..... 5.0%

INERT INGREDIENTS: 95.0%

TOTAL: 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Additional Precautionary Statements on Back Of Bag

NET WEIGHT _____ POUNDS

[BACK PANEL]

In Lawns 5% Diazinon Kills

Ants	Crickets	Sod webworms
Armyworms	Cutworms	Sowbugs
Bermudagrass	Digger Wasps	(Pillbugs)
Mites	Earwigs	Springtails
Billbugs	Fire ants*	White grubs of:
Brown dog ticks	Fleas	• European chafer
Chiggers	Lawn moths	• Japanese beetle
Chinch bugs	Leafhoppers	• Southern chafer
Clover mites	Millipedes	*Aids in control

In Gardens 5% Diazinon Kills

Cutworms	Onion maggots	Wireworms
Mole crickets	Root maggots	

DIRECTIONS FOR USE

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

Reformulation or repackaging this product is prohibited.

OVERALL LAWN APPLICATION

<p>Special Precautions To Reduce Risk To Birds</p> <p>Birds, especially waterfowl (ducks and geese), feeding or drinking on treated areas may be killed. To reduce risks to birds:</p> <ol style="list-style-type: none"> 1. Do not treat areas larger than 15,000 sq. ft. 2. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. 3. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds, especially waterfowl. 4. Avoid overlapping treated areas. 5. Follow all watering instructions included within the directions for use, however, stop watering before puddling occurs. 6. Do not apply this product to sites occupied by waterfowl or to sites within 75 ft. of any body of water that may attract waterfowl, such as lakes or ponds. 7. If it is necessary to repeat application, wait a minimum of 3 weeks between applications. Make no more than 4 applications per year.

[BACK PANEL CONTINUED]

5% Diazinon Insect Killer Granules controls certain lawn pests on both grass and dichondra lawns. Apply 5% Diazinon Insect Killer Granules with a fertilizer spreader. Refer to the tables that follow for use rates and spreader settings.

Pest	Rate*	Timing/Special Directions
Ants, Armyworms, Bermudagrass mites, Brown dog ticks, Chiggers, Chinch bugs, Clover mites, Crickets, Cutworms, Earwigs, Fleas, Lawn moths (sod webworms), Leafhoppers, Millipedes, Sowbugs (Pillbugs), Springtails (<i>Collembola</i>)	2 lbs. per 1,000 sq. ft.	Apply when grass is dry. Water lawn lightly after application. If necessary, repeat application at 3-week intervals. Make no more than 4 applications per year.
Billbugs, White grubs of Japanese beetle, European chafer, Southern chafer, <i>Ataenius spretulus</i> (dung beetle)	2 lbs. per 1,000 sq. ft.	Water grass with at least 1/4 inch of water after application, however stop watering before puddling occurs. For billbug control, apply when activity is first observed or when chewed grass indicates damage. If necessary, repeat application at 3-week intervals. Make no more than 4 applications per year. For grub control, except dung beetle, treat any time between late July and early October. For dung beetle grub control, apply in spring or summer when damage is first noticed. Water grass with at least 1/4 inch of water after application, however stop watering before puddling occurs. Treat again in late Summer or early Fall if a second generation occurs.
Hyperodes weevils	2 lbs. per 1,000 sq. ft.	Water grass with at least 1/4 inch of water after application, however, stop watering before puddling occurs. Treat problem areas in mid-April and again in mid-May.

[BACK PANEL CONTINUED]

- * 1,000 sq. ft. = an area 20 ft. x 50 ft.
- 100 sq. ft. = an area 10 ft. x 10 ft.
- 2 lbs. per 1,000 sq. ft. = 3.2 oz. per 100 sq. ft.

Note: The spreader settings listed below are approximate. Accurately weigh a few pounds into your spreader and apply to a measured area. Then adjust the spreader setting, if necessary, in order to assure correct rate of application.

LAWN SPREADER SETTING NO.**

To deliver 2 lbs. per 1,000 sq. ft.

Spreader Make and Model	For Insects listed Grass and Dichondra Lawns
Central Imperial Mark No. 1662-G	6 ½
Central Suburbia Lawn Spreader No. 1622-0	6 ½
Cyclone Model B1 Rotary	4 ½
Greenfield Model 105	6 ½
ORTHO Drop Spreader Model 3000	4 ½
ORTHO Broadcast Spreader Model 4000	4 ½
J.C. Penney Model 6005	7 ¼
J.C. Penney Rotary Spreader	5
Scott Precision Flow Spreader PF-4	4
Sears Craftsman Model 671. 19198	6

**For application with other types of equipment, apply at the rate of 2 lbs. per 1,000 sq. ft.

[BACK PANEL CONTINUED]

LAWN SPOT TREATMENT

Ants: Apply 1 ½ teaspoons of 5% Diazinon Insect Killer Granules over and around each ant hill.

Fire Ants: To aid in the control of fire ants in lawns and other outdoor home recreation areas, apply ½ cup over, and 2 ft. around, each fire ant mound. Immediately after application, water in thoroughly. Apply gently to avoid disturbing ants. Use of high-pressure watering equipment may disturb the ants and cause migration, reducing product effectiveness. A minimum of 1 gallon of water should be applied to each mound area. Reapply as necessary.

Note: For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours. Works within 24 hours. No waiting for days or weeks. Treat new mounds as they appear.

Digger wasps: Apply 1 ½ teaspoons of 5% Diazinon Insect Killer Granules in and around each nest opening. Apply at dusk when wasps are not active.

BAND TREATMENT AROUND HOUSE FOUNDATION

The following pests are commonly found around or near house foundations and may enter the house:

Ants	Crickets	Millipedes
Brown dog ticks	Earwigs	Sowbugs
Clover mites	Fleas	Springtails (<i>Collembola</i>)

Apply a 2 foot band of 5% Diazinon Insect Killer Granules next to the house foundation. Distribute granules uniformly, using a rate of 3.2 oz. For each 100 sq. ft. of area (2 ft. x 50 ft.) treated. If necessary, repeat application at 3-week intervals.

**HOME GARDENS
VEGETABLES - INSECT CONTROL**

Special Precautions To Reduce Risk To Birds

Birds feeding on treated areas may be killed. To reduce risk to birds:

1. Thoroughly mix 5% Diazinon Insect Killer Granules into the soil during or immediately after application. Refer to the Soil Incorporation table that follows.
2. Granules that are spilled or are visible on soil surfaces should be covered with soil or thoroughly mixed into the soil.

5% Diazinon Insect Killer Granules controls certain garden insects on crops listed in the following tables. Apply uniformly as directed for each crop. When a range of rates is given, use the higher rate only for heavier infestations.

[BACK PANEL CONTINUED]

Do not apply this product to food crops grown in greenhouses.

Unless directions under Timing/Special Directions state otherwise, applications for control of pests listed below should be thoroughly mixed into the soil during or immediately after application.

SOIL INCORPORATION

Insect	Depth of Mixing or Incorporation into Soil
Surface cutworms*	2 - 3 inches
Subterranean cutworms*	3 - 6 inches
Mole crickets	1 - 2 inches
Root Maggots	3 - 4 inches
Wireworms	4 - 8 inches

*If type of cutworm cannot be identified, mix into soil 4 - 6 inches deep.

Crop	Pest	Rate	Timing/Special Directions
Beans (Lima, Pole and Snap) (succulent only)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½ -14 oz. per 500 sq. ft.	
	Note: Do not use on dried bean varieties, such as pintos, dried limas, or navy beans.		
Beets (Red, Table)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½ -14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.

[BACK PANEL CONTINUED]

Crop	Pest	Rate	Timing/Special Directions
Broccoli	Root Maggots	7-10 ½ oz. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½ -14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Brussels Sprouts	Root Maggots	7-10 ½ oz. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Cabbage (bok choy and napa)	Root Maggots	7-10 ½ oz. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.

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[BACK PANEL CONTINUED]

Crop	Pest	Rate	Timing/Special Directions
Carrots	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½ -14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Cauliflower	Root Maggots	7-10 ½ oz. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.

[BACK PANEL CONTINUED]

Crop	Pest	Rate	Timing/Special Directions
Collards	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½ -14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Cucumbers	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
Endive (escarole)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Kale	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.

[BACK PANEL CONTINUED]

Crop	Pest	Rate	Timing/Special Directions
Lettuce	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½ -14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians and Watermelons)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
Mustard Greens	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Onions (Bulb and Green)	Onion Maggots	7-14 oz. per 500 sq. ft.	Broadcast just before planting and mix into the top 3-4 inches of soil. Note: Resistant onion maggots will not be controlled by diazinon or similar type insecticides
	Wireworms	10 1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.

[BACK PANEL CONTINUED]

Crop	Pest	Rate	Timing/Special Directions
Parsley	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½ -14 oz. per 500 sq. ft.	
Peas (succulent only)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
Note: Do not use on dried pea varieties such as dried blackeyed peas.			
Peppers	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Potatoes	Cutworms (Surface and Subterranean)	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
Radishes	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Spinach	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	

[BACK PANEL CONTINUED]

Crop	Pest	Rate	Timing/Special Directions
Squash (Summer and Winter)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½ -14 oz. per 500 sq. ft.	
Sweet Corn	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
	Seed Corn Maggots	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil 2 inches just before planting.
Sweet Potatoes	Wireworms, Flea Beetles	10 ½ oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Swiss Chard	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
Tomatoes	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 ½-14 oz. per 500 sq. ft.	
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Turnips (including tops)	Wireworms	10 ½-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 ½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.

[BACK PANEL CONTINUED]

STORAGE & DISPOSAL

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

Storage: Store in original container in a cool, dry, well-ventilated area. Store product in an area inaccessible to children and domestic animals. Do not store near fertilizer, herbicides, other insecticides, seeds, food, or feed.

Container Disposal: Do not reuse empty bag. Discard bag in trash.

Pesticide Disposal: Securely wrap original container in several layers of newspaper and discard in trash.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

CAUTION. Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye injury. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Do not store near food or feed products. Food utensils such as spoons or measuring cups must not be used for food purposes after use in measuring pesticides. Do not contaminate ornamental fish ponds. Do allow children or pets on treated areas until granules have been watered into the soil and the grass or soil is dry.

FIRST AID ORGANOPHOSPHATE PESTICIDE	
If Swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious or convulsing person.
If Inhaled	<ul style="list-style-type: none"> • Move victim to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on Skin or Clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice

If in Eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for help. You may also want to contact 911 for emergency medical treatment information.</p>	
<p>NOTE TO PHYSICIAN: Diazinon is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. Questions? 1-800-424-9300.</p>	

ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl (ducks or geese) feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowls, do not apply this product to lawns in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds.

Avoid overlapping granules. Granules that are spilled or are visible on soil surfaces should be covered with soil or thoroughly mixed into the soil

For lawns, follow all watering instructions in the directions for use, however, stop watering before puddling occurs. For lawns, do not apply this product to sites occupied by waterfowl, or within 75 ft. of any body of water which may attract waterfowl, such a ponds or lakes.

Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water maker. Runoff may be hazardous to fish and other aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab or other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

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[BACK PANEL CONTINUED]

NOTICE: Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith. Voluntary Purchasing Groups, Inc. warrants this product to conform to the chemical description on the label and for the purposes stated on the label. The limit of any liability incurred shall be the purchase price paid by the user or buyer.

Hi-Yield Chemical Co.
P.O. Box 460
Bonham, Texas 75418

EPA Registration No. 34911-13
EPA Establishment No. 7401-TX-1