

PM 22

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460

Registration

Reregistration

NOTICE OF PESTICIDE:

X

EPA Reg. Number:

Date of Issuance:

JUN 26 1997

70204-1

Term of Issuance:

Conditional

Name of Pesticide Product:

TCI 3100

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Tri-Chem, Inc.

P.O. Box 618244

Orlando, Florida 32861

Note: Changes in Tabeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- Submit and/or cite all data required for reregistration of 1. your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- Submit one copy of your final printed label before you release this product for shipment.

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.

Signature of Approving Official:

Date:

JUN 26 1997

page 2 EPA Reg. No. 70204-1

A stamped copy of the label is enclosed for your records. If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Sincerely yours,

Cynthia L. Giles-Parker Product Manager (22) Fungicide-Herbicide Branch Registration Division (7505C)

Attachments: Product label, stamped "Accepted"

[Front panel]

## **TCI 3100**

# For the Control of Diseases in Fruits, Nuts, Vegetables and Field Crops

INGREDIENTS Active Ingredient: Copper sulfate pentahydrate* Inert Ingredients:  Total:  19.8% 100.0%						
* Metallic copper equivalent, 5.1%. Product contains 0.5 pounds copper per gallon.						
KEEP OUT OF REACH OF CHILDREN DANGER						
PELIGRO						
Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle.  (If you do not understand this label, find someone to explain it to you in detail.)						
PRECAUTIONARY STATEMENTS						
HAZARDS TO HUMANS AND DOMESTIC ANIMALS:  DANGER. CORROSIVE. Causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses. Harmful if swallowed, inhaled or absorbed through skin. May cause allergic skin response. Avoid contact with skin. Wash hands before eating, drinking, chewing gum, using tobacco or the toilet. Remove clothing immediately if pesticide gets inside, wash yourself thoroughly and put on clean clothing. Wash contaminated clothing before reuse.						
STATEMENT OF PRACTICAL TREATMENT (FIRST AID):  If Swallowed: Drink large quantities of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Call a physician or Poison Control Center.						
If Inhaled: Remove victim to fresh air. Get medical attention.						
If on Skin: If contact occurs, wash thoroughly with soap and water.  If in Eyes: Flush with plenty of potable water for at least 15 minutes. Call a physician.						
NOTE TO PHYSICIAN: Product is highly acidic. Probable mucosal damage contraindicates the use of gastric lavage.						

ACCEPTED
with COMMENTS
In EPA Letter Dated

NET CONTENTS:

JUN 26 1997

Under the Federal Insociicide, Fundicide, and Rodenzicide Act as amended, for the pesticide registered under EPA Reg. No. 17.02.04-/

[Back/Side panel]

### PERSONAL PROTECTIVE EQUIPMENT:

Applicators and other handlers must wear:

- Long-sleeved shirt,
- Long pants,
- Waterproof gloves,
- Protective eyewear, and
- Shoes plus Socks.

Maintain this clothing separately from other laundry, and wash with detergent and hot water, or according to manufacturer's label. If these items become drenched with this product's concentrate, discard the clothing, and do not re-use.

### **ENVIRONMENTAL HAZARDS:**

This product is toxic to fish. 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 excess product or equipment wash waters. Do not apply where runoff or drift is likely to occur.

#### DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or others, directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the Agency responsible for pesticide regulation.

### **AGRICULTURAL USE REQUIREMENTS:**

Use this product only in accordance with its labeling and this the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), restricted re-entry interval, and notification to workers. Do not enter or allow entry into treated areas during restricted entry interval (REI) of 24 hours. PPE for early entry into treated areas as permitted by the Worker Protection Standard, involving anything that has been treated, such as plants, soil, or water requires: coveralls, protective eyewear, waterproof gloves, and shoes plus socks.

APPLICATION EQUIPMENT: Application equipment, including fittings and nozzles, MUST be made of the following materials: Fiber, fiberglass, PVC's, polyethylenes, viton, most plastics, aluminum or stainless steel. Product may corrode equipment made of mild steel, nylon, brass or copper.

MIXING INSTRUCTIONS: Fill the spray tank ½ full of water. Agitate continuously during mixing and application. Add the required amount of product. Add water until the spray tank is ¾ full. Add a sticker spreader, if desired. Continue adding water until the tank is full.

APPLICATION VOLUMES: Apply sufficient spray for crop coverage. For vegetable and field crops, apply product in typically 100 to 150 gallons spray solution per acre for conventional spray applications and in 20-50 gallons spray solution per acre for concentrate spray applications. For aerial applications, apply in 5-10 gallons spray solution. Do apply in less than 5 gallons spray solution per acre. Consult the manufacturer for recommended spray solution volumes for a given sprayer.

APPLICATION RATES: See the tables below. See booklet for rates for additional crops. Do not exceed recommended rates. Rates above recommended rates may cause injury to tender foliage of peaches, apricots, almonds and some Japanese plums. When the recommended rate is a range, use the low rate for preventative treatments and mild crop infections and the high rate for moderate to severe infections.

TANK MIXES: To enhance control, this product may be applied with a sticker spreader accepted for use on growing crops. For tank mixes, observe all cautions and limitations on the products used in the mixtures.

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

				APPLICA	ATION RATES	
Crop	Disease	Application Rate			Remarks	
		Conventional Concentrate Sprays Sprays		rate Sprays		
	i	Ounces Product/ 100 Gal Water	Ounces Product/ Acre	Application Volume (Gal/Acre)		
STRAW- BERRIES	Leaf Spot	43-64			Apply pre-bloom and post-bloom.	
CITRUS					CAUTION NOTE: Do not apply in areas where copper injury is known to occur.	
All citrus crops	Brown Rot	171			Apply at first indication of rain or first appearance of Brown Rot. Reapply as needed during wet weather.	
Grapefruit	Greasy Spot Pink Pitting	16-32	213- 555*	Min. 10	Apply during mid-summer.  * Dilute with water according to the recommendations of the manufacturer of the sprayer.	
."	Scab	16-32	213- 555*	Min. 10	Apply shortly before trees begin to flush. Reapply at % petal fall. Reapply 4 weeks later, if necessary. Product may be tank mixed with sulfur.  * Dilute with water according to the recommendations of the manufacturer of the sprayer.	
	Melanose	16-32	213- 555*	Min. 10	Apply 2 times per year before the onset of spring and autumn rains. May be tank mixed with sulfur.  * Dilute with water according to the recommendations of the manufacturer of the sprayer.	

	APPLICATION RATES								
Crop	Disease	Application Rate			Remarks				
	Conventional Sprays	Concentrate Sprays							
	i :	Ounces Product/ 100 Gal Water	Ounces Product/ Acre	Application Volume (Gal/Acre)					
TOMATO	Anthracnose Bacterial Spot Bacterial Canker Early Blight Late Blight Leaf Mold Nailhead Rust Septoria Stemphylium Leaf Spot	43-64			Apply to seedbed or to field before disease appears. Reapply at 7-10 day intervals.  NOTE: While product provides control of Bacterial Spot, increased efficacis observed when product is tank mixed with Maneb.				

### STORAGE AND DISPOSAL

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

PRODUCT STORAGE: STORE PRODUCT IN ITS ORIGINAL CONTAINER AWAY FROM EXCESS HEAT IN A WELL VENTILATED AREA. ALWAYS STORE PRODUCT ABOVE 32°F. Freezing may cause product separation. Seller makes no warranty for the performance of product which has been frozen. Keep product away from nylon, galvanized equipment, strong bases and strong reducing agents. Protect product from physical damage. Maintain good housekeeping. Do not store directly on concrete.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. 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 of Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

SPILLS: Product is highly acidic and is corrosive. In the event of a spill, neutralize product with limestone or baking soda. Shovel or vacuum up chemical and place in an empty container made of fiber, fiberglass, PVC's, polyethylene, viton, most plastics, aluminum or stainless steel. Never dispose of product in containers/closures made of mild steel, nylon, brass or copper. For spills on hard surfaces, cautiously spray contaminated surface with plenty of water and recover resulting solution or slurry for proper disposal. Keep rinsate out of sewer. Product may deteriorate unsealed concrete surfaces. Report spills in excess of 5 gallons product to the National Response Center (800-424-8802).

CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer for recycling or reconditioning, or dispose of empty containers in a sanitary landfill after puncturing, or if incineration is allowed by state and local officials, by burning. If burned, stay out of smoke.

### LIMITED WARRANTY AND LIMITATION OF LIABILITY AND REMEDIES

The directions on this label are believed to be reliable and should be followed carefully. Failure to follow the label directions may cause injury to crops, man, animals, or the environment. Insufficient control of pests and/or injury to the crop to which the product is applied may result from unusual weather conditions, incorrect use, or poor application practices, none of which are under the control of Tri-Chem, Inc. or the seller. Seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS OF MERCHANTABILITY, expressed or implied, or any other warranty if the product is used contrary to the label instructions, or under normal conditions not foreseeable to the seller. In no case shall the seller be liable for more than the cost of this product to the buyer, and will in no event be liable for any consequent, special or indirect damages connected with the use or handling of this product including, but not limited to, loss of profits or income. This product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied.

MANUFACTURED BY:

Tri-Chem. Inc. 17224 East Street, N.E. North Fort Myers, FL 33917 [BAR CODE, IF DESIRED]

ANY QUESTIONS? CALL 1-407-426-3701 EPA Reg. No.: 70204-

EPA Est. No.: 70204-FL-001

[Front panel]

### TCI 3100

## For the Control of Diseases in Fruits, Nuts, Vegetables and Field Crops

**INGREDIENTS** 

use of gastric lavage.

1	Inert Ingredients:	ntahydrate*	80.2%					
,	* Metallic coppe	er equivalent, 5.1%. Product contains 0.5 pounds copper per gallon.						
		KEEP OUT OF REACH OF CHILDREN DANGER						
		PELIGRO Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)						
		PRECAUTIONARY STATEMENTS						
	DANGER. COR clothing. Wear skin. May cause drinking, chewing	HAZARDS TO HUMANS AND DOMESTIC ANIMALS:  DANGER. CORROSIVE. Causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses. Harmful if swallowed, inhaled or absorbed through skin. May cause allergic skin response. Avoid contact with skin. Wash hands before eating, drinking, chewing gum, using tobacco or the toilet. Remove clothing immediately if pesticide gets inside, wash yourself thoroughly and put on clean clothing. Wash contaminated clothing before reuse.						
	STATEMENT OF PRACTICAL TREATMENT (FIRST AID):  If Swallowed: Drink large quantities of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Call a physician or Poison Control Center.							
	If Inhaled: Remove victim to fresh air. Get medical attention.  If on Skin: If contact occurs, wash thoroughly with soap and water.  If in Eyes: Flush with plenty of potable water for at least 15 minutes. Call a physician.							
	NOTE TO PHYS	NOTE TO PHYSICIAN: Product is highly acidic. Probable mucosal damage contraindicates the						

NET CONTENTS: \_\_\_\_\_

(Label split into a centainer and a broklet label.) compared to appropriate parts of the 1/8/97 label. B

[Back/Side panel]

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- Long-sleeved shirt,
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## — High

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

FRUIT AND NUT CROPS							
Crop	Disease	Α	pplication Rat	e	Remarks		
	Conventional Concentrate Sprays Sprays						
	")" deletiol	Ounces Product/100 Gal Water	Ounces Product/ Acre	Application Volume (Gal/Acre)			
BERRIES							
Blackberries Boysenberries Dewberries	Anthracnose	43			Apply when leaf buds begin to open. Reapply when flower buds show white. Continue treatments at 10 to 14 day intervals.		
Loganberries Raspberries	Leaf Spot Cane Spot Yellow rust	43			Apply when leaf buds begin to open. Reapply when leaf buds begin to open and when flower buds show white.		
		85		Added	Apply to foliage after seasonal fruit harvest is -complete and after pruning, but before the onse of heavy autumn rains.		
Strawberries	Leaf Spot	43-64			Apply pre-bloom and post-bloom.		
Grapes	Anthracnose Black Rot Downy mildew	21	43-64	Sufficient water for good coverage.	Apply when new growth is ½ inch long. Reapply every 10-14 days.		

		F	RUIT AND N	UT CROPS	
Crop	Disease	A	pplication Ra	te	Remarks
ŧ		Conventional Sprays	Concent	rate Sprays	
	">"deleted	Ounces Product/100 Gal Water	Ounces Product/ Acre	Application Volume (Gal/Acre)	, pchange-l
CITRUS					CAUTION NOTE: Do not apply in areas where copper injury is known to occur.
All citrus crops	Brown Rot	171			Apply at first indication of rain or first appearance of Brown Rot. Reapply as needed during wet weather.
Grapefruit	Greasy Spot Pink Pitting	16-32	213-555*	Min. 10	Apply during mid-summer.  * Dilute with water according to the recommendations of the manufacturer of the sprayer.
	Scab	16-32	213-555*	Min. 10	Apply shortly before trees begin to flush. Reapply at % petal fall. Reapply 4 weeks later, if necessary. Product may be tank mixed with sulfur.  * Dilute with water according to the recommendations of the manufacturer of the sprayer.
	Melanose	16-32	213-555*	Min. 10	Apply 2 times per year before the onset of spring and autumn rains. May be tank mixed with sulfur.  * Dilute with water according to the recommendations of the manufacturer of the sprayer.

	FRUIT AND NUT CROPS						
Crop	Disease	A	pplication Rat	е	Remarks		
		Conventional Concentrate Sprays Sprays		ate Sprays			
		Ounces Product/100 Gal Water	Ounces Product/ Acre	Application Volume (Gal/Acre)			
STONE FRUIT		いったままもし					
Apricots	Brown Rot Blossom Blight	43-64	128 - 149*		Apply at swelling bud stage to popcorn bud stage. Do not apply when leaves are present.  * Use low rate only during popcorn bud stage.		
	Shot Hole	43-64			Apply as a dormant spray.		
	Bud Blight	64	149		Apply after most leaves have fallen and before the onset of heavy autumn rains.		
Avocados	Anthracnose Blotch Scab	43			Apply when blossom buds open. Reapply at 4 week intervals. Do not apply more than 5 treatments per season. Do not apply later than 140 days after bloom.		
Cherries (Sour)	Brown Rot Blossom Blight	85-107		-	Apply at popcorn and late bud stages. Apply at petal fall with 5 lb. hydrated lime per 100 gallons spray.		
1	Leaf Spot	85-107			Apply at petal fall with 5 lb. hydrated lime per 100 gallons spray.		
	Shot Hole	85-107			Apply as a dormant spray.		
Olives	Leaf Spot (Peacock Spot)	43-64*	128*	Min. 40*	Apply during autumn. to be Leteted  * In areas of less 10 inches or less rainfall per year, use only 21 oz product/100 gallons water.		

	FRUIT AND NUT CROPS								
Crop	Disease	А	pplication Ra	ite	Remarks				
		Conventional Sprays	Concen	trate Sprays					
	"">" deicted	Ounces Product/100 Gal Water	Ounces Product/ Acre	Application Volume (Gal/Acre)	-				
Peaches Nectarines	Brown Rot Blossom Blight Peach Blight (Shot Hole)	43-64	128-17:1	25-50	Apply before bud swell stage and during full pink bud stage. Do not apply after full pink bud stage or when leaves are present; crop injury may occur.				
,	Leaf Curl	43-64	128-171	25-50	Apply as a dormant spray before the onset of heavy autumn rains. Apply before foliage buds swell. Consult your Agricultural Experimental Station.				
	Peach Bacterial diseases	43			Apply as a dormant spray.				
Plums Prunes	Brown Rot Blossom Blight	43-64	128	25-50	Apply at early green bud stage and full popcorn stages.				
	Shot Hole	43-64	128	25-50	Apply as a dormant spray before the onset of heavy autumn rains.				

		F	RUIT AND N	JT CROPS	
Crop	Disease	A	pplication Rat	e	Remarks
· · · · · ·		Conventional Sprays	Concentr	ate Sprays	
	")" deleted	Ounces Product/100 Gal Water	Ounces Product/ Acre	Application Volume (Gal/Acre)	
TREE NUTS					
Almonds	Brown Rot Shot Hole	43-64*	107-128**	25-50	Apply at pink bud to popcom bud stage. Do not apply when leaves are present.  * Apply in 350-400 gallons spray solution/acre  ** Apply 128 oz product/acre through swelled bud stage. Apply 107 oz product/acre at popcorn bud stage.
·		128-213*			Apply as a dormant spray.  * For aerial application, apply in 20 gallons water/acre.
Walnuts	Blight	43-64			Apply during early pre-bloom (1% pistiliate, not catkin, blooms showing). Reapply at 10% to 20% pistallate, not catkin, blooms showing. Reapply as necessary. Do not apply more than 4 times per season.

		VEGETAB	LES AND OTHER ROW CROPS			
Crop	Disease	Fluid oz TCI 3100 / 100 gal water	Remarks			
BEANS						
Green Beans Dry Beans	Angular Leaf Spot Anthracnose Bacterial Blight Downy Mildew	21-64	Apply when plants are approximately 5 inches tall. Reapply at 5-7 day intervals.			
COLE CROPS			- Mai-led			
Broccoli Cabbage Cauliflower	Downy Mildew Leaf Spot	43	Apply when plants are above ground in plant bed or before disease typically appears. Reapply at 7-10 day intervals in plant bed and field.			

VEGETABLES AND OTHER ROW CROPS						
Crop	Disease	Fluid oz TCI 3100 / 100 gal water	Remarks			
CUCURBITS			NOTE: Some Agricultural Experiment Stations recommend application of an equal amount of hydrated lime when product is used on cucurbits. Application of lime to cucurbits may cause dwarfing of plants and reduce fruit set due to increased transpiration and defloration under some conditions. Consult your local Experiment Station for specific recommendations.			
Cucumbers	Downy Mildew	32-43	Apply before disease first appears. Reapply at 7-10 day intervals.			
Cantaloupes Cucumbers Melons Pumpkins	Angular Leaf Spot Anthracnose Alternaria Leaf Spot	43	Apply to soil after planting but before emergence. Apply to foliage when plants begin to vine. Reapply every 7-10 days. Since disease is likely to be more serious in high plant populations (40,000 or more plants per acre), reapply every 3-4 days to protect fruit at all stages of development.			
Squash	Bacterial Wilt Downy Mildew Powdery Mildew Gummy Stem Blight Leaf Spot Scab	43	Begin treatment when plants begin to vine. Reapply every 7-10 days. Since disease is likely to be more serious in high plant populations (40,000 or more plants per acre), reapply every 3-4 days to protect fruit at all stages of development.			

	VEGETABLES AND OTHER ROW CROPS							
Crop	Disease	Fluid oz TCI 3100 / 100 gal water	Remarks					
FRUITING VEGETABLES		)						
Eggplant	Alternaria Blight Anthracnose Phomopsis	43	Apply in plant bed or in field before disease appears. Reapply at 7-10 day intervals.					
Peppers	Anthracnose Bacterial Leaf Spot Early Blight Cercospora Leaf Spot (Frogeye Spot) Downy Mildew	43-64	Apply to seedbed. Apply to field at 7 day intervals.  NOTE: Disease control is critical during fruiting.					
Tomatoes	Anthracnose Bacterial Spot Bacterial Canker Early Blight Late Blight Leaf Mold Nailhead Rust Septoria Stemphylium Leaf Spot	43-64	Apply to seedbed or to field before disease appears. Reapply at 7-10 day intervals.  NOTE: While product provides control of Bacterial Spot, increased efficacy is observed when product is tank mixed with Maneb.					

VEGETABLES AND OTHER ROW CROPS				
Crop	Disease	Fluid oz TCI 3100 / 100 gal water	Remarks	
LEAFY VEGETABLES				
Celery	Bacterial Blight Early Blight Late Blight	43	Treat every 7 days after emergence.	
Spinach	Anthracnose Cercospora Leaf Spot Downy Mildew White Rust	43	Apply when disease first appears. Reapply at 7-10 day intervals.	
PEANUTS	Cercospora Leaf Spot	32-64	Apply at emergence. Reapply at 10-14 day intervals.  NOTE: The addition of 2 lb. sulfur as a tank mix will enhance control.	

VEGETABLES AND OTHER ROW CROPS				
Crop	Disease	Fluid oz TCI 3100 / 100 gal water	Remarks	
ROOT CROPS				
Beets	Downy Mildew Leaf Blights Leaf Spots	43	Apply when disease first appears. Reapply at 7-10 day intervals.	
Carrots	Downy Mildew Cercospora Alternaria Leaf Blights	43	Apply when disease first appears. Reapply at 7-10 day intervals.	
Onions	Purple Blotch Downy Mildew	43	Apply when foliage is 4-6 inches long. Reapply at 7-10 day intervals.	
Potatoes	Early Blight Late Blight	64-85	Apply when foliage emerges. Reapply at 7-10 day intervals.	
Sugar Beets	Cercospora Leaf Spot	85	Apply when disease first appears. Reapply at 7-10 day intervals.	

### STORAGE AND DISPOSAL

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

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### LIMITED WARRANTY AND LIMITATION OF LIABILITY AND REMEDIES

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MANUFACTURED BY:

Tri-Chem, Inc. 17224 East Street, N.E. North Fort Myers, FL 33917

[BAR CODE, IF DESIRED]

ANY QUESTIONS? CALL 1-407-426-3701

EPA Reg. No.: 70204-EPA Est. No.: 70204-FL-001