

AUG -2 1990

Mr. Michael Jackson  
Platte Chemical Company  
P.O. Box 667  
Greeley, CO 80632

Subject: Amendment: Revise per Diazinon Registration Standard &  
to reflect only those uses/rates supported by Ciba-Geigy  
Diazinon 5 Lawn and Garden  
EPA Reg. No. 34704-57  
Your submission dated February 28, 1990

Dear Mr. Jackson:

The amendments referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, are acceptable provided the following revisions are made prior to release for shipment under the amended labeling:

- 1) The front panel claims show "Fire Ants\*", but the associated footnote "Aids in control" does not appear at the bottom of this list of pests.
- 2) In the second sentence of the Environmental Hazards text, add a comma after "especially waterfowl".
- 3) Under the heading "In Gardens DIAZINON 5 LAWN & GARDEN KILLS", delete the pests "Armyworms", "Carrot Rust Flies", "Corn borers", and "Rootworms", since these pests are associated with use patterns not being supported by Ciba-Geigy for diazinon reregistration.
- 4) In the "Precautions", revise the end of the fourth sentence to read: "... increase potential hazards to birds and waterfowl.".
- 5) Also in this same "Precautions" section, revise the sixth sentence to read as follows:

Where watering is recommended in the directions, or if waterfowl, i.e., ducks or geese, can be expected to enter the treated area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after applying this product, however, stop watering before puddling occurs.

- 6) Relocate the lawn spreader setting table from page 15 to page 4, to the end of the overall lawn application directions, i.e., after the specific directions for Hyperodes weevil control (and above the "Spot Treatment" section). When relocating this table, the following revisions should be made: Since the table will be near the pest listing for overall lawn treatment, delete "Insects listed below" from the top of the right-hand column and delete the list of pests from the bottom of the table. Also, revise the table heading to read "LAWN SPREADER SETTING NO. (To deliver 2 lbs. per 1000 sq. ft.)". Then, in the right column heading, delete "2 lbs" from beneath "Grass or Dichondra Lawn".
- 7) Delete the directions for control of lesser cornstalk borers on beans. Ciba-Geigy has recently notified the Agency that it will not support reregistration of post-emergence application of granular diazinon to beans.
- 8) In the heading for the directions for use on melons, relocate the closing parenthesis mark to appear after "... and hybrids of these" rather than after "... and hybrids of these and watermelons".
- 9) In the directions for use on sweet corn, delete the directions for control of European Corn Borer, Fall Armyworm, and Southwestern Corn Borers, as well as the "Notes" for that crop. Based on the results of avian field studies, Ciba-Geigy has elected not to support reregistration of post-emergence application of granular diazinon to corn. The "Notes" (which deal with picking corn immediately after last application and prohibiting feeding fodder to livestock for 10 days following the last application) are not appropriate to the remaining at-plant soil application use on sweet corn.

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised amended label prior to release for shipment under the amended label. NOTE: When preparing your label, do not print the quotation marks that appear around revised text items specified in this letter.

Please refer to the Diazinon Registration Standard, as amended, for release for shipment and channels of trade dates for diazinon products bearing appropriately amended labels.

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Pesticide Branch  
Registration Division (R7505C)

THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SPORTS AREAS.



# DIAZINON 5 LAWN AND GARDEN

## LAWN AND GARDEN INSECT CONTROL READY TO USE GRANULES CONTAINS 5% DIAZINON INSECTICIDE

### KILLS:

Ants	Fire ants *
Armyworms	Fleas
Bermudagrass mites	Onion maggots
Billbugs	Root maggots
Brown dog ticks	Sod webworms
Chiggers	White grubs of: • Japanese beetles
Chinch bugs	• European chafer
Crickets	• Southern chafer
Cutworms	Wireworms and others

### ACTIVE INGREDIENT:

Diazinon: O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate ..... 5%

INERT INGREDIENTS: ..... 95%

TOTAL 100%

## KEEP OUT OF REACH OF CHILDREN CAUTION

See Below For Additional Precautionary Statements

EPA REG. NO. 34704-57

EPA EST. NO. \_\_\_\_\_

NET WEIGHT \_\_\_\_\_ POUNDS

EXPIRY DATE

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing dust and contact with eyes, skin or clothing. Wash thoroughly after handling and before eating or smoking. May cause contact sensitization following repeated contact with skin of susceptible individuals. Avoid repeated contact with skin. If sensitization reactions result, consult a physician. 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 not allow children or pets on treated areas until granules have been watered into the soil and the grass or soil is dry.

## ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted labeled rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping granules. Where irrigation (watering) is recommended in the directions or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of 0.25 inch of water immediately after applying this product. Stop irrigation before polluting occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries.

Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Runoff may be hazardous to 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 and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

## STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician immediately. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

If inhaled: Remove victim to fresh air and apply artificial respiration, if indicated.

If on skin: Wash promptly with soap and water. Rinse thoroughly.

If in eyes: Rinse eyes with plenty of water and call a physician immediately.

Note to Physician: This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM® also antidotal and may be administered, but only in conjunction with atropine.

## DIRECTIONS FOR USE

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

## STORAGE AND 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 fertilizers, herbicides, other insecticides, seeds, food, or feed.

**PESTICIDE DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash.

**CONTAINER DISPOSAL:** Do not reuse empty bag. Discard bag in trash.

### In Lawns

#### DIAZINON 5 LAWN & GARDEN KILLS:

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

### In Gardens

#### DIAZINON 5 LAWN & GARDEN KILLS:

Armyworms  
Carrot rust flies  
Corn borers  
Cutworms  
Mole crickets  
Onion maggots  
Root maggots  
Rootworms  
Wireworms

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

AUG 4 2 1990

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

34704-57

## OVERALL LAWN APPLICATION

DIAZINON 5 LAWN & GARDEN controls the following lawn insects on both grass and dichondra lawns:

(continued on page 2)

# DIAZINON 5 LAWN AND GARDEN

EPA REG. NO. 34704-57

(continued from page 1)

Ants • Armyworms • Bermudagrass mites • Brown dog ticks • Chiggers • Chinch bugs • Clover mites • Crickets • Cutworms • Earwigs • Fleas • Lawn moths (and webworms) • Leafhoppers • Millipedes • Sawbugs • Springtails (Collembola)

**Precautions:** Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds. Avoid overlapping treated areas. If waterfowl, i.e., ducks, geese, can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least 0.25 inch water immediately after application; however, stop watering before gulling occurs.

Apply DIAZINON 5 LAWN & GARDEN with a fertilizer spreader. See spreader setting chart below. Apply when grass is dry. Repeat as necessary.

For application with other types of equipment, apply at the rate of 2 lbs. per 1000 sq. ft. (an area 20' by 50') or 3.2 oz. per 100 sq. ft. (an area 10' by 10').

**Sawbugs;** White grubs of Japanese beetle, European chafer, Southern chafer, *Arenivaga sprattus* (dung beetle): Apply 2 lbs. per 1000 sq. ft. of lawn. Water grass thoroughly after application. For sawbug control, apply when activity is first observed or when chewed or brown grass indicates damage from these insects. Repeat as necessary. For grub control, except dung beetle, treat any time between late July and early October. For dung beetle grub control, apply in Spring or early Summer when damage is first noticed. Water grass thoroughly with 1/4-1/2 in. of water after application. Treat again in late Summer or early Fall if a second generation occurs.

#### Hyperodes weevils:

Apply 2 lbs. per 1000 sq. ft. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

#### Spot Treatment:

**Ants:** Apply 1 1/2 teaspoons of DIAZINON 5 LAWN & GARDEN over and around each ant hill.

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

**Notes:** For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear.

**Digger wasps:** Apply 1 1/2 teaspoons of DIAZINON 5 LAWN & GARDEN 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 foundations of houses as well as in lawns. Certain of these pests may enter houses.

<b>Ants</b>	Fleas
Brown dog ticks	Millipedes
Clover mites	Sawbugs (Pillbugs)
Crickets	Springtails
Earwigs	(Collembola)

Apply a 5 foot band of DIAZINON 5 LAWN & GARDEN next to the house foundation. Distribute granules uniformly, using a rate of 3.2 oz. for each 100 sq. ft. of area (5' by 20') treated. Repeat as necessary.

#### Vegetables - Insect Control

DIAZINON 5 LAWN & GARDEN 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.

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.

Depth of Mixing or  
Incorporation into Soil

Depth	Soil Type
Surface cultures*	2-3 inches
Subsurface cultures*	3-4 inches
Leaf crickets	1-2 inches
Root maggots	3-4 inches
Wireworms	4-6 inches

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

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Beans (Pea, Snap or Lima) (excluding dry bean)	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Lesser Corn-eat: Beetles	3 1/2-7 ozs. per 500 sq. ft.	Apply in a 6-inch band centered over the row when plants are 1 1/2-3 inches tall.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
<b>NOTE:</b> Do not use on dried bean varieties, such as pinto, dried lima, navy beans, etc.			
Beans, Pod (Dwarf)	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Broccoli	Root Maggots	7-10 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Brussels Sprouts	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Root Maggots	7-10 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Cabbage	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Root Maggots	7-10 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
Carrots	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Carrot Rust Flies	7 ozs. per 500 sq. ft.	Apply in the seed furrow or planting time.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Cauliflower	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Root Maggots	7-10 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Celery	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Collards	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Cucumber	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Root Maggots	7-10 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Endive (Escarole)	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Kale	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.

(continued on page 2)

## **DIAZINON 5 LAWN AND GARDEN**

EPA REG. NO. 34704-57

*Answers from page 2*

CROP	PEST	RATE	TIMING/ SPECIAL DIRECTIONS
Lettuce	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Male Crickets	3½ ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Melons (Cantaloupe, Cucumber, Chayote, Honeydew, Muskmelon, Pawpaw, & Hybrids of these and watermelons)	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Mustard	Male Crickets	3½ ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Onions (green and bulb)	Onion Maggot	7-14 ozs. per 500 sq. ft.	Broadcast just before planting and mix into the top 3-4 inches of soil by diskling, harrowing, or other suitable means.
	Wireworms	10½-14 ozs. per 500 sq. ft.	NOTE: Onion maggots may not control organophosphorus-resistant onion maggot.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Parsley	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Peanut (succulent only)	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
NOTE: Do not use on dried pea varieties such as dried blackeyed peas.			
Peppers	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Male Crickets	3½ ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Potatoes	Caterpillars (Surface & Subterranean)	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
NOTE: Do not use on commercially-grown potatoes which will be hand-harvested.			
Radicchio	Male Crickets	3½ ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Spinach	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Squash, Summer and Winter	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Sweet Corn	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Seed Corn Maggots	7-14 ozs. per 500 sq. ft.	Broadcast just before planting. Mix into soil 2 inches.
	Wireworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	European Corn Borer	3½-7 ozs. per 500 sq. ft.	When 70% of the plants show first-generation borer feeding, apply over the corn as granules fall into whorls. Make a second application 7 days later if needed.  For second-generation borers, apply as above when there is an average of 1 egg mass per plant. Do not make more than 2 applica- tions per season.

Sweet Corn (Early)	Pet. Antiparasite	3½-7 ozs. per 500 sq. ft.	Apply over corn as granules but not where whole larvae are present. If necessary, applica- tion may be repeated twice at 7-day intervals. Do not make more than 3 applications per season.
	Southwestern Corn Borer	3½-7 ozs. per 500 sq. ft.	Apply over corn as granules but not where whole second-generation larvae first appear. If necessary, application may be repeated twice at 7-day in- tervals. Do not make more than 3 applications per season.
<b>NOTES:</b> Corn may be picked immediately after last application. Do not feed fodder to livestock for 10 days following last applica- tion.			
Sweet Potatoes	Wireworms, Flea Beetles	10½ ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting. Southeastern U.S.-Broadcast 10½ ozs. per 500 sq. ft. over the tops of vines when roots begin to enlarge and do not minimize soil.
Swiss Chard  S	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Tomatoes	Caterpillars	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3½ ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Turnips	Mole Crickets	3½ ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10½-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.

**SPREADER SETTING NO.**  
**(See 1909 Vol. R.)**

Spreader Make and Model	Insects Bated below?
Central Imperial Model No. 1682-G	Grass or Dicamba Lawn 2 lbs.
Central Suburban Lawn Spreader—No. 1622-G	6½
Cyclone Model G1 Rotary	6½
Greenfield Model 103	6½
ORTHO Drop Spreader Model 3000	4½
ORTHO Broadcast Spreader Model 4000	4½
J.C. Penney Model 6005	7½
J.C. Penney Rotary Spreader	5
Scott Precision Flow Spreader Model PF-4	4
Sears Craftsman Model 671.19198	6

Ants	Crickets	Leafhoppers
Armyworms	Caterpillars	Moths
Bermudagrass Miles	Earwigs	Scorpionflies
Brown Dog Ticks	Fleas	(Pill Bug)
Chiggers	Hyperodaeus Wound	Syrphidae
Chinch Bugs	Lawn Moths	(Cuckoo)
Clover Miles	Slugs (Whiteworm)	

## **NOTICE**

Plata warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks naturally associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Plata. In no case shall Plata be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Plata makes no warranties of Merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

## **Diazinon Mixture RQ NA2783**

ORNL-A

**FORMULATED FOR  
PLATTE CHEMICAL CO.**