

Reg # 59639-26 PM - 14

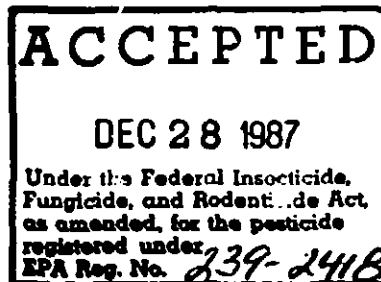
197

ORTHENE 75 S Soluble Powder
EPA Reg. No. 239-2418
Submitted: October 2, 1987

COPY A

PLANTS	INSECTS	ORTHENE 75 S PER 1,000 SQ. FT	TIME OF APPLICATION	RECOMMENDED APPLICATION
Dichondra	Cutworm Flea Beetle Southern Armyworm Yellow Striped Armyworm	1.0 to 1.9 oz. (2.7 to 5.2 lbs. per acre)	As the insects appear. Repeat at 2 week inter- vals as nec- essary.	Apply the spec- ified amount of ORTHENE 75 S per 1,000 sq. ft. Use a minimum of 15 gals. of water per 1,000 sq. ft. to obtain good coverage.

*Stamp Copy A
only -
(rest of label not revised)*



*Transferred to 62
59639-26*

CONFIDENTIAL

PROPERTY OF
CHEVRON CHEMICAL COMPANY
UNTIL ACCEPTED BY EPA

DEC 28 1987

Design

ORTHENE®

(INSECTICIDE)

Active ingredient:
*Acetophase 10.5 Dimethyl acetyl
phosphoramide trihydrate
Inert ingredients:
*DITHIONE[®] Acetophase
U.S. Pat. Nos. 3,716,600

15.
25.

**KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE BELOW FOR ADDITIONAL
PRECAUTIONARY STATEMENTS.**

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION

Handwritten: Cause of death: ... and ...

STATEMENT OF PRACTICAL TREATMENT

1. **Preparation of the water**
The water used for the experiment was deionized water. The water was deionized by passing it through a deionization column. The deionization column was made of a mixture bed of mixed bed ion exchange resin. The water was deionized for 15 minutes. The deionized water was then stored in a clean container.

Do not use Phosphatidylcholine (Energy Information System) as a substitute for a cholesterol-lowering agent. Phosphatidylcholine (Energy Information System) is a cholesterol-lowering agent. It is not a substitute for a cholesterol-lowering agent. It should not be used alone.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds if applied to water. Avoid its use on or near water.
This product is highly toxic to bees exposed to it during their active life cycle. Do not apply this product to areas where bees are foraging.

EXCHANGED SPECIES RESTRICTIONS

LABEL INSTRUCTIONS: Before you apply or use this product after February 1, 1980:
The following restrictions apply to use of this product after February 1, 1980:
Banned uses: The use of this product on and around wild birds, game animals, and game fish in the counties listed below requires that you obtain a PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES for the county in which the product is to be used. The bulletin is available from your County Extension Agent, State Fish and Game Office, or your pesticide dealer. Use of this product in a manner inconsistent with the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDA-
GERED SPECIES is a violation of Federal laws.

ALABAMA (1944)
 CALIFORNIA (1946) County Fresno Glenn Inyo Kern
 Kings Los Angeles Madera Merced Monterey Orange
 Riverside Sacramento San Bernardino San Diego San
 Luis Obispo Santa Barbara Santa Stanislaus Sutter
 Ventura and Yuba
 FLORIDA (1946) Lee
 GEORGIA (1946) Appling Bacon Bibb Blount Bulloch
 Chatham Clinch County Coffee Crisp Cuthbert
 De Kalb Douglas Early Echols Effingham Emanuel
 Evans Gilchrist Glenn Graham Irwin Jeff Davis Jasper
 Jones Johnson Lanier Laurens Lee Liberty Lowndes
 Macon McIntosh Madison Mitchell Montgomery
 Morgan Newton Oconee Oglethorpe Okefenokee Wilcox
 Tatam Thomas Tift Wilkes Yamacraw Yulee
 Washington Wayne Wheeler Wilkes and Wilcox
 HAWAII (Islands of Maui, Lanai, and Kauai)
 IDAHO (Big Lost, Bonanza and Caribou)
 ILLINOIS (Ill. Co. Cook DuPage Kaneas and St. Charles)
 MISSISSIPPI (1946) Jackson

MONTANA (1946) McCone Sheridan and Valley
 NEBRASKA (1946) Boone Buffalo Butler Cass Cedar
 Colfax Deuel Dodge Douglas Hancock Harlan
 Kearney Keith Pawnee Knox Morrill Nemaha
 Phelps Platte Polk Rock Sargent Saunders
 and Sherman
 NORTH CAROLINA (1946) Beaufort Brunswick Burke
 Caswell Chatham Clay Edgecombe Franklin Gaston
 Greene Halifax Hertford Jones Johnston Lenoir
 Martin McDowell Mecklenburg Mitchell Moore
 New Hanover Person Robeson Richmond Rowan
 Sampson Scotland Surry Swain Talbot Wayne
 and Yamacraw
 SOUTH CAROLINA (1946) Abbeville Beaufort Berkeley
 Charleston Clarendon Chesterhedge Georgetown Hampton
 Horry Jasper and Marion
 MISSOURI (1946) Clay Jackson Howell Porter Stanley
 Warren Union Washington and Zionsville
 TEXAS (1946) Abilene Cameron Colorado Fort Bend
 Galvesto, Harris and Victoria
 LUTHER (Washington)
 WYOMING (1946) Lincoln and Sublette

CONSTRUCTION FROM USE

It is a violation of Federal law to use this product in a manner inconsistent with its label.
**READ ENTIRE LABEL AND PAMPHLET USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND
 DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

SECURITY STATEMENT

NECESSARY STATEMENT
Keep all unexposed persons out of operating areas or of any place where there may be drift.
Do not enter treated areas without protective clothing until signs have faded.
Certain States may require more restrictive reentry intervals. Consult your State Department of Agriculture for further information.
Written or oral warnings regarding use of protective clothing and accidental exposure must be given to workers who are expected to be in treated areas or in areas about to be treated.

CONCLUSIONS

Apply to transplants only by sprinkler irrigation systems. Do not apply by chemigation to any other crop or this crop using any other type of irrigation system.

[illegible]

COT TEND

Crop	Insects	Amount ORTHO 75 S Per Acre	Further Use Instructions	Days to Harvest
Cotton	Thrips	2 1/2 to 4 oz	Apply in water at 10 to 15 lbs. spray per acre by air minimum 500 gals acre in CA A2/ or 10 to 25 gals spray per acre by ground	
	Planthoppers	1 1/2 to 1 3/4 lbs		
	Lygids	2 3/4 to 1 1/2 lbs (CA A2)		
	Featherflies	1 1/2 lb	Apply when eggs or insects first appear. Repeat as necessary to maintain control	
	Cotton Aphid Aphid	2 3/4 to 1 1/2 lbs		
	Amygdalus Cabbage Looper	1 1/2 lbs	Lygus - Use higher rate for adults that have grazed on cotton	
	Borers	2 3/4 to 1 1/2 lbs		
	Tobacco budworm	1 1/2 lbs (CA A2)	Bullmoose and Tobacco bud worm - Early season infestations ration use 2 3/4 lb per acre. Mid and late season use 1 1/2 severe infestations use 1 1/2 lb per acre. Apply when eggs appear and repeat at a 3 to 7 day spray interval	
	Stinkbugs (CA A2)	1 lb		
	Pink Bollworm (CA A2)	1 1/2 lbs	Pink bollworm - Apply when insects appear and repeat at a 3 to 7 day spray interval	
			Do not apply within 21 days of harvest	
			Do not feed or fresh to livestock or allow animals to graze on treated areas	

COTTON TACK MEETS:

Crops	Insects	Amount ATTENDING TS 5 + LABORER + ME Per Acre	Further Use Instructions	Days to Plant again
Cotton (CA AZ)	Amyrmus B. weaver Cabbage Looper Cotton Aphid Cutworms F. weaver Grasshoppers Pink Bollworm Plant Bugs Striped Weevils S. H. weaver Colorado Thrips Tobacco B. weaver A. weaver	13 to 133 lbs 1 to 2 lbs	Do not feed on trash or treated forage to livestock. Do not allow livestock to graze on treated areas	2

Crop	Inputs	Amount ESTIMATED PLS. FURNISH 249C Per Acre	Further Use Instructions	Days to Harvest
Corn H. Co. CA AZ	Inducto Bismarck	2.3 lb 2.23 lb	Burn applicators when eggs or insects appear and apply as needed to maintain control Apply in 1 to 3 parts of water; with spray equipment at 4 to 10 to 15 parts of water with ground equipment	21

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Crop	Insects	Amount ORTHOENE 75 S Per Acre	Further Use Instructions	Days to Harvest
CA AZI	Beetle Cabbage Looper Cotton Aphid Cutworm Grasshopper Pro Bollworm Pine Borer Soybean Moth Soybean Stem Borer Tomato Bullhorn Armyworm	1 to 2 lbs	Apply to insects. Do not allow spray to reach ground.	

Crop	Insects	Amount ORTHOENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Cotton Except CA AZI	Beetle Bullhorn	2.3 lb 2.3 lb or	Begin application when eggs or insects appear and spray as needed to maintain control. Apply in 3 to 5 gals. of water with spray equipment or 10 to 25 gals. of water in ground equipment. Do not feed grain to livestock or allow animals to graze treated areas. Do not apply more than two (2) lb. of active ingredient of ORTHOENE to a crop in a growing season. At applicable directions, restric- tions and precautions on the EPA registered labels are to be followed.	21

FIELD CROPS

Crop	Insects	Amount ORTHOENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Pepperoni Soybean	A. 1st Insect C. 1st Insect Aphids	1.3 lb	Apply in water at 10 to 15 gals. spray per acre by air or 10 to 20 gals. spray per acre by ground. Apply when eggs or insects first appear. Make one more at application necessary to maintain control. Do not apply more than 2.3 lb. of active ingredient.	14
Soybeans	Grasshoppers Soybean Looper Cabbage Looper Green Caterpillar Soybean Caterpillar Mexican Bean Beetle	1.3 to 2.3 lb 1.3 to 1.5 lb	Apply in water at 10 to 15 gals. spray per acre by air or 10 to 20 gals. spray per acre by ground. Repeat as necessary to maintain control. Do not graze livestock for hay or forage.	
Peanuts	Grasshoppers Thrips Cotton Aphid Soybean Caterpillar Mexican Bean Beetle	1.3 to 2.3 lb 2.3 to 1 lb 1 to 1.3 lb	Apply in water at 10 to 15 gals. spray per acre by air or 10 to 20 gals. spray per acre by air. Begin applications when insects first appear and repeat as needed to maintain control. Do not feed treated forage or hay to livestock or allow animals to graze treated areas.	14 to 21 days

FRUIT CROPS

Crop	Insects	Amount ORTHOENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Cranberries	Fireworms Soybean Caterpillar	1.3 lb	Apply in water at 10 to 15 gals. spray per acre by air or 10 to 20 gals. spray per acre by ground. Use a minimum of 2 gals. spray per acre by air. Use minimum water to 25 gals. through spray with ground or spray equipment. Make 1 to 10 applications per growing season. Do not apply from start of season until all berries set.	30

SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES
 The product may only be applied through sprinkler irrigation systems including center pivot, lateral move, and low sub-irrigation systems. Do not apply this product from any other type of irrigation system.
 If you have questions about calibration you should contact State Extension Service specialists, equipment manufacturers or other experts.
 Do not connect an irrigation system including greenhouse systems used for peening application to a public water system unless the label prescribes safety devices for public water systems and a notice.
 A person knowledgeable of the irrigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.
 The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
 The pesticide injection equipment must contain a functional automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
 The pesticide injection equipment must also contain a functional, normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
 The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
 The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
 Systems must use a metering pump such as a positive displacement injection pump or a diaphragm pump effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
 Do not apply when wind speeds favor drift beyond the area intended for treatment.
 Solid Soil Systems: Apply specified dosage for the entire length of the irrigation period for a 30 to 60 minute period at the end of a regular irrigation set or at a 30 to 60 minute interval as a separate application not associated with a regular irrigation. Allow time for all lines to flush the pesticide through all valves before turning off irrigation water to ensure the lines are flushed and free of remaining pesticide. A flow indicator may be injected into the lines to mark the end of the application period. See NOTE.
 Center Pivot Systems: Inject the specified dosage per acre continuously for one complete revolution of the system. See NOTE.
 NOTE: Constant pressure must be maintained in the chemical supply tank during the entire period of pesticide application. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to assure continuous flow.
 Application of more than label recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.

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PASTURE RANGELAND WASTELAND

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SPECIALTY USES				
Crops	Insects	Amount Required 75 S Per Acre	Further Use Instructions	Once in Season
Non-Crop Areas	Scouting for Ants	1000 lb/acre Dry Material Apply distribute to 2 responses over the mound	For best results apply in mounds in the early morning or late afternoon when the ants are most active	
		1000 lb/acre Dry Material Apply 1 gal of water Apply 1 gal of	Apply places made under perching but and dry conditions do be ineffective due to the acidity of the ants being in the nest	
			Crops in treated area may be harmed	

SPECIALTY USES				
Crops	Insects	Amount OFFERED PER % of Dry Matter	Further Usage Instructions	Days to Eliminate
Acid Grass Stacks	Housefly Larvae	Ground Treatment - Dry Material Evenly distribute 1 to 2 tablespoons over the surface	For best results apply the material in the early morning or late afternoon so the units are not soaked	
		Grass Material Mix 1 lb. in 5 gals. of water Apply 1 gal. of mix to each mound area by sprinkling the mound with 4 to 5 water and treat a foot (1 foot x 1 foot) circle around the mound	Apply stacks made under prolonged hot and dry conditions may be ineffective due to the drying of the cells deep within the nest	
			Grass in treated area may be used	
			Do not treat mound more than once per season	

[illegible]**SMALL STATEMENT**

Publication of THIS OFFICE Form does not mean a US or Short-term Use

Label Recurrence, Average DEFINITE or PROBABLE	Specimens DEFINITE in 25 Gals. Water	Specimens DEFINITE in 1 Gal. Water with Gal.
130	212	1
131	2	2
132	201	1
133	100	1

THEIR OWN CHOICES

[illegible]

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COMMERCIAL TURFGRASS, LAWNS, AND OTHER RECREATIONAL TURFGRASS AREAS
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK

Plants	Insects	Amount ORTHENE 75 S Per 1,000 Sq. Ft.	Time of Application	Recommended Application
Turfgrass	Fa. Armyworm Yellow-striped Armyworm Southern Armyworm	1.2 to 1.2 oz. 1.5 to 3.14 1.5 per acre	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1,000 sq. ft. Use a minimum of 5 gals. water per 1,000 sq. ft. to obtain good coverage.
	Cutworm	2 to 2.4 oz. 3.14 to 6.23 1.5 per acre		
Turfgrass	Soil Webworm (Crambus sp.)	1.2 to 1.2 oz. 1.5 to 3.14 1.5 per acre	As soil webworms begin to appear. Use the higher amount when birds and jowls are near the turfgrass. Repeat application may be necessary. Do not repeat at more than 1 week intervals.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1,000 sq. ft. Use 1 to 15 gals. water per 1,000 sq. ft. to obtain good coverage.
	Leafhopper	1 oz. (2.34 lbs. per acre)	As the leafhoppers begin to appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1,000 sq. ft. Use 1 to 15 gals. water per 1,000 sq. ft. to obtain good coverage.
Turfgrass	Male Crickets (except CA)	1.0 to 1.9 oz. 2.46 to 5.2 lbs. per acre	As male crickets begin to appear. For established lawns, one application may be required throughout the grow- ing season. For heavy infestations use the higher dos- age rate.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1,000 sq. ft. Use 1 to 15 gals. water per 1,000 sq. ft. to obtain good coverage. Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application.
	Greenbug (Schizaphis graminis) Grasshoppers	1.2 oz. (1.13 lb. per acre)	Apply when insects or their damage first appears. Repeat as necessary. Applica- tion is not to be re- peated at more than 1 week intervals.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1,000 sq. ft. Use 1 to 15 gals. water per 1,000 sq. ft. to obtain good coverage. Do not mow turfgrass for at least 24 hours after application.

Plants	Insects	Amount ORTHENE 75 S	Time of Application	Recommended Application
Turfgrass	Imported Fire Ants	1.0 lb. 2.34 lbs. per acre	For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.	Apply the specified amount of ORTHENE 75 S Soluble Powder as directed. Grass in treated areas may be injured. Do not treat mound more than once per season.
	Branch Borer	1.0 lb. 2.34 lbs. per acre	Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a few ft. foot diameter circle around the mound.	

OUTDOOR FLORAL CROPS AND WOUND COVERS

Plants	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Gladioli Carnations Easter Lilies Crocuses Pansies Roses Sedum Statice Sticks Tulips Violets Zinnias	Aphids Thrips Lepidoptera	2.3 to 10.5 oz.	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of ORTHENE 75 S in 100 gals. water with a hydraulic sprayer as a full coverage spray. Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.
Roses Boston Ivy	Japanese Beetle	1.13 lb. 2.34 oz.	As the Japanese beetles begin to appear. Repeat applications at 2 week intervals may be necessary.	

GREENHOUSE FLORAL AND PLANT CROPS

Plants	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Tulips	Colorado Colorado	2.3 to 10.5 oz.	As Colorado beetles begin to appear. Use the higher amount when Colorado beetles are abundant.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 20 gals. water with a hydraulic sprayer as a full coverage spray. Do not apply more than once every 20 days to carnations and chrysanthemums.
	Aphids	2.3 to 10.5 oz.	As aphids begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 20 gals. water with a hydraulic sprayer as a full coverage spray. Do not apply more than once every 20 days to carnations and chrysanthemums.
Tulips	Colorado Colorado	2.3 to 10.5 oz.	As Colorado beetles begin to appear. Use the higher amount when Colorado beetles are abundant.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 20 gals. water with a hydraulic sprayer as a full coverage spray. Do not apply more than once every 20 days to carnations and chrysanthemums.
	Aphids	2.3 to 10.5 oz.	As aphids begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 20 gals. water with a hydraulic sprayer as a full coverage spray. Do not apply more than once every 20 days to carnations and chrysanthemums.
Tulips	Colorado Colorado	2.3 to 10.5 oz.	As Colorado beetles begin to appear. Use the higher amount when Colorado beetles are abundant.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 20 gals. water with a hydraulic sprayer as a full coverage spray. Do not apply more than once every 20 days to carnations and chrysanthemums.
	Aphids	2.3 to 10.5 oz.	As aphids begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 20 gals. water with a hydraulic sprayer as a full coverage spray. Do not apply more than once every 20 days to carnations and chrysanthemums.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

NOTE: This product is sold by weight and package is full when packed, but due to fluffy nature this material is inclined to settle.

STORAGE AND DISPOSAL

PROHIBITIONS

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

STORAGE

Keep product in original container.

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NOTE: This product is sold by weight and package is full when packed but due to fluffy nature this material is claimed to serve

PROHIBITIONS

Do not contaminate water, food or feed by storage or disposal of cleaning or equipment. Open burning is prohibited.

STORAGE

STORAGE
Keep pesticide

Do not put concentrate or dilute into
Store in cool dry place. Protect from

Do not contaminate food or foodstuffs
Do not store or transport meat feed or food

DESIGNS BY MAIL

PESTICIDE DISPOSAL
 Hazards resulting from the use of this product

CONTAINER DISPOSAL

Completely empty canister was also

but of smoke

CONDITIONS OF SALE 1. Chevron Chemical Company's (Chevron) warrants that its material conforms to the chemical description on the label and a responsibility for use as directed hereon. Chevron neither makes, nor authorized

description of the age and reasonably fit for use as directed hereon. Corporation does not guarantee or represent or warrant to make any other warranty of FITNESS or of MERCHANTABILITY guarantee or represent or warrant to make any other warranty of FITNESS or of MERCHANTABILITY.

critical and unresolvable factors beyond the authors' control prevent from an original analysis of copper or

The use of chemicals such as insecticides but are not limited to damage to plants and crops to which the material is applied. Lack of complete control and damage caused by drift to other plants or crops. Such risks occur even though

The products are reasonably fit for the uses stated hereon and even though acid regions are involved Buser and I have made the best estimate possible and assume all risks and liability (except those assumed by Hexion under its product responsibility).

1. The storage and use of this material

DORSBAN®... Reg. TM of Dow Chemical Company
 NALCO TRON®... Reg. TM of Nalco Chemical Co.

FRISCO TADE - Reg. Trad. of FRISCO CHEMICAL CO.
FUDRIN® - Reg. Trad. of E. I. du Pont de Nemours & Co. Inc.

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