ACCEPTED

APR 10 1989

REREGISTRATION - MALATHION

FOR:

CHEM-TOX, INC., Barrington, II. 60010

DATE: 10/10/88

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

(((FRONT PANEL)))

Net Contents: pt. quart: 1/2 gai. 1 gal. 5 gai. 30 gal. 55 gal.

CHEM-TOX MAL-50%-E.C.

contains CYTHION* Emulsifiable Liquid

FOR GARDEN-HOME-FARM

ACTIVE INGREDIENTS:

** contains Aromatic Petroleum Distillate (44%)

* Trademark of American Cyanamid

KEEP OUT OF REACH OF CHILDREN C A U T I O N (18 PT)

See Side Panel for Additional Precautionary Statements.

Chem-Toxy Inc.
Barrington, II. 60010

EPA Reg. No. 45385-43 EPA Est. No. 45385-11-01

NET:______ Order Code: EC-534 (((SIDE PANEL)))

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS.

<u>CAUTION</u>: Harmful if swallowed. Avoid contact with skin. Avoid breathing of spray mist. Wash skin thoroughly after using. Avoid contamination of feed and foodstuff.

STATEMENT OF PRACTICAL TREATMENT

if swallowed - call a physician or Poison Control Center immediately. Or ink 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 moth to an unconscious person.

if inhaled - remove victim to fresh air. Apply artificial respiration if indicated.

if on skin - remove contaminated clothing and wash affected areas with some and water.

if in eyes - flush eyes with plenty of water. Call a physician immediately.

Note to Physician: Malathion, upon repeated, prolonged, careless use, may cause cholinesterase inhibition. Atropine is antidotal.

ENVIRONMENTAL HAZARDS This product is toxic to fish, birds, and other wildlife. Do not apply directly to water or wetlands (i.e., swamps, bogs, marshes, and potholes). Orift and runoff maybe hazardous to aquatic organisms in areas near the application site. Do not contaminate water when disposing of equipment wash waters. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment areas. Protective information may be obtained from your Agricultural Extension Service. Indoors: Use only with adequate ventilation. After using this product, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until sprays have dried.

PHYSICAL AND CHEMICAL HAZARDS

Do not pour, use, spill or store near heat or open flame.

DIRECTION FOR USE

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

STORAGE & DISPOSAL (12 PT)

Both and contaminate water, food, or feed by storage or disposal. Open dumping is probin bited. Store in original container and place in a cool; dry, locked or secured storage area. PESTICIDE DISPOSAL: Pesticide wastes are toxic. Wastes resulting from the use of this product may be disposed of on site at an approved waste disposal facility.

CONTAINER DISPOSAL: 1. Household(Aii) - Do not reuse empty container (postie, can; bucket). When container and put in trash collection. 2. Metal (Aii Sizes) - Triple hinse (or equivalent) and offer for recycling or reconcitioning, or puncture and dispose of in a sanitary landfili; or by other procedures approved by state and local authorities. 3. Plastic Containers - Triple hinse (or equivalent). Then there for recycling or reconditioning, or puncture and dispose of in a sanitary landfili; or burner, and dispose of in a sanitary landfili; or burn

CHEM-TOX MAL-SCX-E.C.

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Terms of Sale or Use on purchase of use of this product:

WARRANTY: Manufacturer and seller warrants that this product, as of the time of sale conforms to the ingredient statement on the label, and is reasonably fix for the purpose set forth in the Directions for Use. Except as so warranted the product is sold as is. Manufacturer makes no other warranty express of implied. EXCUSE FROM NON-CONTROLLABLE CONDITIONS: Because of certain critical conditions created or incurred by buyer or user or over which manufacturer has no control, buyer and user as a condition of purchase or use, assume responsibility for and release manufacturer from, liability arising out of handling or use of the product attributable to such causes. No person is authorized to vary or waive any statement contained herein.

HOUSEHOLD INSECTS: For ANTS, BROWN DOG TICKS, CARPET BEETLE, CENTIPEDES, CLOTHES MOTHS, CLOVER MITE, COCKROACHES, CRICKETS, EARWIGS, FLEAS, FLIES, MOSQUITOES, MOTHS, SCORPIONS, SILVERFISH, SPIDERS, STORED PRODUCT INSECTS: Dilute 3 this, per quart (1 quart per 5 gal.) of water. Apply as a coarse spray or with paint brush to window sills, screens, cracks, and crevices, around doors, baseboards, storage areas, bookcases, undersinks, and other areas frequented by or where pests are noticed.

FLIES & MOSQUITOES: Use at a rate of 2 quarts per 25 gal. (1 pint to 6 gal. of water). For best results add 1 pound of sugar to each gal. of finished spray. Mix well. Spray all surfaces and places where flies and mosquitoes congregate. Use a wetting spray to the point of run-off. Use around buildings, stockyards, dairy barns, poultry houses, garbage cans, and manure piles. Repeat as necessary.

CATTLE: (beef & non-milking)- (No preshaughter interval through 1.27% finished spray for animal treatment). For HORN FLY dilute 1-1 1/2 gal. per 100 gal of water (6 1/2 - 10 pz per 5 gal). Apply as a complete coverage spray and repeat at 2 week intervals if needed. LICE: dilute 1 gal. per 100 gals. of water (6 1/2 pz per 5 gals.). Apply as a complete coverage spray. One treatment may suffice. Repeat only if needed. TICKS: use 1-2 gals. per 100 gal. of water. (6 1/2-13 pz per 5 gals.) Apply a complete coverage spray and repeat at 2 week intervals if needed. BACK RUBBING DEVICE: (No preshaughter interval through approximately 2% finished spray). For HORN FLY and LICE use a 2% mixture in fuel oil. To be used in all types of backrubbers and face pliers. Do not over saturate. Backrubbers and pliers should be made continously accessible to the animals. Use one backrubber/34-45 animals. Recharge every 14 to 21 days. Note: Do not treat young animals under 3 months of age. Do not spray or make accessible (pack rubbing devices) to lactating gairy animals.

HORSES - HORNFLIES: Didute 1 1/2 gais, per 30 gais, of water (1/2 - 13 or per 5 gais.). Apply as a complete coverage spray and repeat at 2 weeks intervals if needed. LICE: Use 1 gail per 150 gais, of water (6 1/2 or per 5 gais.). Apply as a complete coverage spray. One treatment may suffice. Repeat only if needed. TICKS: Use 1-2 gais, per 180 gais, of water (6 1/2 or per 5 gais.). Apply as a complete coverage spray and repeat at 2 weeks intervals if needed. For GULF COAST TICK and SPINOSE EAR TICK, apply at 10% pressure to each ear and to head, neck and shoulder areas.

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POLILTRY -

CHICKENS, DUCKS, GEESE, TURKEYS: No preslaughter interval through 1 to 1.5 gaillons of 0.6% finished spray per 100 birds for animal treatment. For CHICKEN RED MITE, CHEWING LICE, NORTHERN FOWL MITE: Dilute 2 tbs. per gal, per 100 to 150 birds. Spray birds directly. Repeat in 4 to 6 weeks or when necessary. Treatment is supplemental to premise treatment. CHICKEN BODY LOUSE, NORTHERN FOWL MITE, SHAFT LOUSE: Dilute 8 1/2 sz. per 15 gáls. per 400 birds. TAIL DIPPING: (no preslaughter interval through 3.75 gal. of 8.267% finished spray per 100 birds for tail dipping). Hold bird by sings and dip 3 to 4 inches of tail into emuision. Treat vent and surrounding areas. Repeat in 7 to 10 days if needed. POULTRY HOUSES: For CHEWING LICE, CHICKEN RED MITE, NORTHERN FOWL MITE: FLIES: Dilute 4 this. per gallon an apply liberally to litter, walls; ceiling, roost nests, and adjacent areas. Apply with a high pressure sprayer. Force spray into cracks and crevices. The soluble concentrate/liquid is diluted in kerosene or other distillates. ROOST PAINT TREATMENT - For CHEWING LOUSE, CHICKEN RED MITE: Dilute 2-7 mg. per gai. of water or mi! and apply with a brush to ail possible roosting places. One application is usually sufficient. Control should be achieved in 4 to 7 days. Examine birds 14 to 21 days after treatment. Make the second application If needed. FOWL TICK: Dilute 6-7 mg per gal. and apply liberally to walls, ceiling, roost nests, and ajacent areas. Apply with a high pressure sprayer and force spray into cracks and crevices. CHIGGER MITES: Apply 1-1 1/2 pints per acre as a range treatment. Treat the range thoroughly 24 hours prior to placing poultry on range. Repeat at 14 to 21 day intervals.

DOGS, CATS: For FLEAS, ITCH MITE FAMILY, LICE, TICKS (including BROWN DOG TICK): Do not treat pupples or kittens under 4 weeks of age. Dilute 1 oz (2 tbls.) in 1 gal. of water and using a hand sprayer, set the animal thoroughly. If necessary: repeat treatment in 7 days. If animals run freely treatments may be required every 14 to 21 days. ANIMAL QUARTERS: (kennels, pens, yards, lawns and under houses). Dilute 5 oz (18 tbls.) in 1 gal. to 25 gals.)Apply to pet quarters. Spray bedding cracks, crevices and flooring thoroughly as often as needed.

GOATS - SHEEP: No presidualite interval through 0.65% finished spray for animal treatment. Do not treat animals under 1 month of age. For SHEEP KED - dilute 1 gal. per 100 gals of water (6 1/2 oz per 5 gals.) For LICE - dilute 64 pints per 108 gals. of water (5 oz per 5 gals.) Spray animals thoroughly. TICKS - dilute 1-2 gals. per 180 gals. of water (6 1/2 oz per 5 gals.) Apply complete coverage spray. DO NOT APPLY TO MILK GOATS. Repeat after 14 to 21 days if needed.

HOGS: No preslaughter interval through 0.65% finished spray for animal treatment. On not treat animals under 1 month of age. After treatment, hogs should be kept out of the sun or wind for a few hours. Avoid contamination of feed, feed containers and watering troughs. For ITCH MITE family and LICE didute 1 gai, per 100 gais or water (6.1/2 cz per 5 gais.). Apply for complete coverage to animals, pens, and litter. One treatment is usually sufficient. Repeat If needed. For itch mite family, treat the entire herd. A second treatment may be required 10 days after the first treatment.

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OUTDOOR APPLICATION:		Oilutian	Pre-harvest interval		
Plant:	Pests:	Rate	days		
Figwering Plants/ Ornamental	Do not allow spray to contact ferns hickory viburnum, lantana, crassula, or canaetri juniper as injury may result to-plants. Do no apply to elms under conditions of drought, heat or disease.	Gr .	w		
•	APHIDS (including cherry aphid, green apple aphid, rosy apple aphid, snowball aphid, and woolly apple aphid), BAGWORMS, BIRCH LEAFMINER, BOX ELDER BUG, BOXWOOD LEAFMINER, CHRYSANTHEMUM LEAFMINER, ELM LEAFMINER, EUROPEAN PINE SHOOT MOTH, FOURLINRD LEAF BUG, JAPANESE BEETLE (adults), LACE BUGS, LEAFHOPPERS (including rose leafhopper), LOCUST LEAFMINER, MEALYBUGS (including citrus mealybug), MITES (including boxwood mite, European red mite, gallmite, honey locust mite, cak mite, red spider mite, southern red mite, spruce mite, and twospotted spider mite), POTATO LEAFHOPPER, PSYLLIDS (including boxwood psylla), SCALES (including azalea scale, bean scale, black scale, euonymus scale, fletcher scale, Florida red scale, juniper scale, magnolia scale, Montery pine scale, oak kernes, byster shell scale, needle scale, scurfy scale, soft brown scale, and wax scale), TARNISHED PLANT BUG, TENT CATERPILLAR, THRIPS, WHIEFLIES.				
	For PINE NEEDLE SCALE: For scales, apply when crawlers have settled. May be applied by mint blower. Repeat at 5 to 7 day intervals as needed.	2 1/2 pts/100 gal. on 4 tsp/gal.			
FRUIT CROPS:	APHIDS (inci. apple-) green peach-) -csy apple-) woolly apple aphid),APPLE MAGGOT, BAGWORMS, CODLING MOTH, EYESPOTTED BUD MOTH, FLOURLINED PLANT BUG, JAPANESE	i-2 pts/188 ga: or 2 tse/ga:	3 days		

APHIDS (incl. applet) green peacht, nosy applet, woolly apple aphid), APPLE MAGGOT, BAGWORMS, CODLING MOTH, EYESPOTTED BUD MOTH, FLOURLINED PLANT BUG, JAPANESE BEETLE (adults), LEAFHOPPERS, LEAFROLLERS (incl. fruittreet, redbanded leafroller), MEALYBUGS, MITES (incl.spider mites, such as brown mite, European red mite, twospotted spider mite, Willamette spider mite),

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ORANGE TORTRIX, ORIENTAL FRUIT MOTH, PEAR PSYLLA, PLUM CURCULIO, SCALES (incl.cottonycushion-, Forbes-, Putnam-, San Jose scale), TARNISHED PLANT BUG, TENT CATER-PILLARS (incl.eastern tent caterpiliar); TENTIFORM LEAFMINERS, THRIPS, UNSPOTTED TENTIFORM LEAFMINER, YELLOWNECKED CATER-PILLAR.

May cause fruit injury to McIntosh and Cortland varieties if applied with 28 days of harvest.

Delayed dormant and foliar application. For codling moth, oriental fruit moth, and plum curculio, apply at petal fall and repeat at 10 to 14 day intervals as needed. For scales (craw-lers), apply when crawlers are present approximately second, fifth, sixth and seventh cover sprays. For spider mites, make at least 2 applications at 10 to 12 days intervals in summer months.

Cherry

APHIOS (incl. black cherry, black peach green peach aphid), CHERRY FRUIT FLY, CODLING MOTH, EYESPOTTED BUO MOTH,

FRUITTREE LEAFROLLER, JAPANEASE BEETLE (adults); LEAFHOPPERS, LESSER PEACHTREE BORER, MITES (incl. spider mites such as brown mite, European red dite, and twosported spider mite), ORANGE TORTRIX, ORIENTAL FRUIT MOTH, PLUM CURCULIO, REDBANDED LEAFROLLER, SCALES (including Forbes scale and SanJose scale)

Failar application. For cherry fruit fly, repeat at 10 day intervals. For Forbes scale and San Jose scale, apply 21 days before harvest.

Peach:

APHIOS (incl. black cherry, black peach green peach, rusty plum aphid), CODLING M MOTH, COTTONY PEACH SCALE, EUROPEAN FRUIT LECANIUM, EYESPOTTED BUD MOTH, JAPANESE BEETLE (adults), LEAFHOPPERS, LYGUS BUGS, MEALYBUGS, MITES (including spider mites such as brown mite, European red mite, twospotted spider mite), ORANGE TROTRIX, ORIENTAL FRUIT MOTH, PEACH TWIG BORER, PLUM CURCULIO, REDSANDED LEAFROLLER,

1.5 pts./100 gal.

or

2 tsp./ga'.

2 pts./100 ge . 7 days

2 tsp/ga..

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CHEM-TOX MAL 55% - E.C.

Delayed dormant and foliar application. For scals and peach twig borer, make full coverage application at comletion of hatching, approx. the last of June. For oriental fruit moth and plum curculio, apply at petal fail and repeat at 10 to 14 day intervals.

Pear:

APHIOS (including apple, apple grain, rosy apple, woolly apple aphid), CODLING MOTH, EYESPOTTED BUD MOTH, FORBES SCALE (incl. crawlers), FOURLINED PLANT BUG, JAPANESE BEETLE (adults), LEAFEHOPPERS, LEAFROLLERS (incl. fruittree, redbanded leafroller), MEALYBUGS, MITES (incl. spider mite such as brown, European red, Pacfic spider, twospotted spider, Williamette spider mite), ORANGE TORTRIX, ORIENTAL FRUIT MOTH, PEAR PRYLLA, PLUM CURCULIO, SAN JOSE SCALE (incl.crawlers) TARNISHED PLANT BUG, THRIPS

Injury may occur under certain conditions in the Northeast or BOSC variety of pears. Delayed dormant and foliar application. For codling moth, oriental fruit moth, and plum curculio, apply at petal fall and repeat at 10 to 14 day intervals. For scales, apply when crawlers are present, approx. first or second cover and last half of July. For spider mites, make at least 2 application at 10 to 12 day intervals in summer months.

1-2 pts./183 gal.

2 tsp./gai.

1 day

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BERRIES:

3!ackberry; Boysenberry; Sewberry; Loganberry; Raspberry; APHIDS, BLACK SCALE, EUROPEAN FRUIT LEC-ANIUM, HEMISHERICAL SCALE, JAPANESE BEETLE, (aduits), LEAFHOPPERS, LEAFROLLERS, MITES, (including spider mites such as twospotted spider mite), PLUM CURCULIO, PSYLLIDS, RAS-BERRY FRUITWORMS, ROSE SCALE, ROSE CHAFER, SAP BEETLES (raspberry only), SPITTLEBUGS, THRIPS, WHITEFLIES.

Foliar application.

1-2 st/188 gal.

2 tsp/ga:

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Strawberry:	APHIDS, FIELD CRICKETS, LEAFHOPPERS (incl. potato leafhopper), LEAFROLLERS (incl. strawberry leafroller), MITES(incl.spider mites such as twospotted spider mite), ROSE SCALE, SPITTLEBUGS, STRAWBERRY ROOT WEEVIL, THRIPS, WHITEFLIES,	Gr.	3 days
	Foliar application. On not use where cyclamen mite is a pro- blem.		****
VEGETABLES:			
Cucuaber	APHIDS, PICKLEWORM, SPIDER MITES, CUCUMBER BEETLES,	3 tsp/gal	1 day
•	Do not apply unless plants are dry. Foliar application		<i>¥</i>
Asparagus:	APHIDS, ASPARAGUS BEETLE, LEAFHOPPERS, SPIDER MITES, THRIPS,		1 day
	Toliar appliaction. For asparagus beetle, apply when pest first appears. For thrips, apply immediately after cutting.	2 tsp./ga!.	
Cole Crops (inci. Brussels sprouts, Cabbage,	APHIDS (inci. cabbage-)turnip aphid; ARMYWORM, CABBAGE LOOPER; CORN EARWORM; CUCUMBER BEETLES; DIAMONDBACK MOTH, FLEA BEETLES; FOURLINED PLANT BUG; HARLEQUIN BUG; IMPORTED CABAGEWORM; WHITEFLIES.		7 days
	Edilar application. For aphids, apply lower dosages. For control of caterpillars on summer and fall plantings		
	in South, apply when true leaves appear. On other plantings, and for control of other insects, apply when pests first		
***	appear.		
Ceiery,	APHIDS, CELERY LEAFTIER, CUCUMBER BEETLES CUTWORMS, JAPANESE BEETLE, LEAFHOPPERS,		7 days
	SPIDER MITES (inc). twospected spider mite), THRIPS, WHITEFLIES,	2 tsp./ga	

CHEM-TOX MAL SOX-EC				
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Eggplant,	APHIOS, SPIDER MITES (incl. twospotted spider mite. LACE BUGS;	0 1	3 days	
	Foliar application. For lace bugs, apply the higher dosage.	2 tsp./ga;.		
Endive	APHIDS, ARMYWORM, CABBAGE LOOPER, SPIDER MITES, WHITEFLIES, THRIPS,	2 400 100	7 days	
	Foliar application.			
Peas	APHIOS (incl. pea aphid), PEA WEEVIL, SPIDER MITES, THRIPS, WHITEFLIES,	(vin	3 days es not used for ed)	
•	Foliar application. For leathoppers and Mexican bean beetle; make 2 or more application as needed. For pea aphids; apply during early bloom before eggs are oviposited.	(vin	7 days es are used for d) ∵	
Beans	APHIOS (incl.beam phid), BEAN LEAF BEETLE, SEAN LEAF BEETLE, BLISTER BEETLES, CORN EARWORM, CUCUMBER BEETLES, CUTWORMS, DARLING BEETLES, SPIDER MITES (incl.twospotted spider mite) STINK BUGS;	1-1.5 pts/100 gai. Or		
	Foliar application. Make 2 or more applications as needed.	·		
Spinach:	ALFALFA LOOPER, APHIDS, LACE BUGS, LEAF- HOPPERS, SPIDER MITES, THRIPS.	3r	7 days	
	Foliar application.	2 tsp./gal.		
Tomato:	APHIOS, DROSOPHILA, LEAFMINERS (incl. serpentine leafminer), SPIDER MITES (incl. twospotted spider mite), TOMATO HORNWORM,	2 tsp./gai.	5 days	
	Foliar application, For aphids, spider mites, and tomato russet mite, apply the higher dosage.	************		
Beets:	APHIDS (incl.bean aphid), LEAFHOPPERS, LEAFMINERS,	3 pts./188 ga . 3r	7 da s	
	Foliar application,	2 tsp./ga		

CHEM-TOX MAL 50% EC.

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Corn:

APHIDS (incl.corn leaf aphid), ARMYWORMS, CEREAL LEAF BEETLE, CORN ROOTWOMS(adults) SRASHOPPERS, SAP BEETLES, THRIPS, SPIDER MITE

3 pts./100 gal. or 2 tsp./gal.

The same of the sa

5 days

Formulations by incating pests in leaf sheath and use as much water as possible; direct spray into whorl. For corn rootworm; begin treatment when 10% of ears show silk Make 4-5 applications at 3-5 days intervals. Injury may occur in the whorl stage.

For grasshoppers; apply at nymphal stage.