

STOP - READ LABEL BEFORE USING!

POISON

See Side Panels
for Antidote &
Precautions



DANGER

Keep Out of
Reach of
Children

HELENA
BRAND

PARATHION 25-W

(Parathion 25 W is a wettable powder)

ACTIVE INGREDIENTS:

Parathion (0,0-Diethyl O-p-nitrophenyl phosphorothioate) 25.00%

INERT INGREDIENTS: 75.00%

TOTAL 100.00%

NOT FOR HOME USE.

MANUFACTURED BY
HELENA CHEMICAL COMPANY
MEMPHIS, TENNESSEE



DANGER - POISON - PRECAUTIONS

POISONOUS IF SWALLOWED



This product can kill you if swallowed even in small amounts: spray mist or dust may be fatal if swallowed.

POISONOUS BY SKIN CONTACT



Poisonous if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes).

POISONOUS IF BREATHED

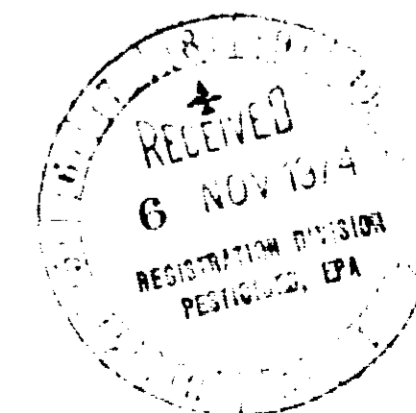


Breathing vapors, spray mist or dust may be fatal.

POISONOUS TO FISH AND WILDLIFE

This product is toxic to fish, shrimp, crab, birds and other wildlife. Birds and other wildlife in treated areas may be killed. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.



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D A N G E R

DANGER: Poisonous if swallowed, inhaled, or absorbed through skin!
Rapidly absorbed through skin.

POISONING SYMPTOMS: Headache, blurred vision, weakness, nausea, cramps, diarrhea, discomfort in chest.

ANTIDOTE: Atropine is the specific antidote. Obtain emergency supply of Atropine 1/100 grain tablets from your physician. Keep on hand.

CALL A PHYSICIAN IMMEDIATELY if persons handling or working with Parathion develop poisoning symptoms.

FIRST AID TREATMENT

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to parathion and describe his condition.

If breathing has stopped, start artificial respiration immediately and maintain until doctor sees victim.

If swallowed and victim is awake (conscious) make him vomit quickly. Induce vomiting by sticking finger down throat or by giving soapy or strong salt water to drink. Repeat until vomit is clear. Never give anything by mouth to an unconscious person. Have victim lie down and keep quiet. See doctor immediately.

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. See doctor immediately.

NOTE TO PHYSICIAN

ANTIDOTE - administer atropine sulfate in large doses. TWO to FOUR mg. intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is also antidotal and may be administered in conjunction with atropine. DO NOT GIVE MORPHINE OR TRANQUILIZERS. Parathion is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapses have been reported after initial improvement: VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.

USE ONLY WHEN WEARING THE FOLLOWING
PROTECTIVE EQUIPMENT AND CLOTHING

- (1) Wear water-proof pants, coat, hat, rubber boots, or rubber overshoes.
- (2) Wear safety goggles.
- (3) Wear mask or respirator approved by the U. S. Bureau of Mines for Parathion protection.
- (4) Wear heavy duty, natural rubber gloves.

WORK SAFETY RULES

Keep all unprotected persons and children away from treated area or where there is danger of drift.

Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to parathion and describe his condition. After first aid is given (see First Aid Treatment Section) and if a doctor cannot come, take victim to clinic or hospital.

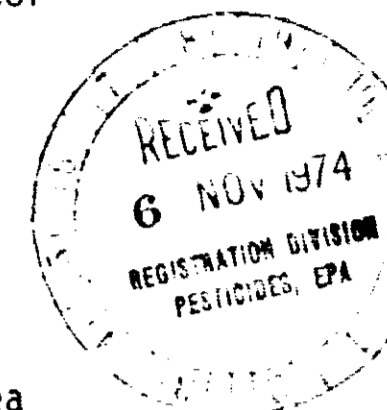
IMPORTANT! Before removing gloves, wash them with soap and water before smoking, eating or drinking.

AFTER WORK, take off all work clothes and shoes. Shower, using soap and water. Wear only clean clothes when leaving job. Do not wear contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Respirator should be cleaned and filter replaced according to instructions included with respirator.

POISON SIGNS (SYMPTOMS)

Parathion is a very dangerous poison. It rapidly enters the body by contact with all skin surfaces and eyes. Clothing wet with this material must be removed immediately. Exposed persons must receive prompt medical treatment or they may die.

Some of the signs and symptoms of poisoning are: Headache, nausea, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.



POST TREATED AREA

Consult your State Agricultural Extension Service or Experiment Station regarding posting treated areas.

CONTAINER DISPOSAL

Burn or bury empty containers, never reuse. Stay out of smoke or fumes when burning containers. Bury spillage, clean area with strong lye solution.



DIRECTIONS FOR USE

Parathion 25-W is ready to use as a spray after dilution with water. Add the required amount of material directly to the spray tanks while filling the spray tank with water. Keep the agitator running while filling and spraying.

This product should be applied with not less than the minimum gallonage of water per acre listed below, unless otherwise specified:

Row and Field Crops	Minimum Gallons of Water Per Acre	
	Aircraft	Ground
.....	1 to 3	3 to 10
(California only ... 5	10)

USE PRECAUTIONS: Do not allow spray to drift onto adjacent crops. Do not apply while bees are working in the field. Allow at least 5 days before pruning trees, thinning fruit or other continuous work in areas treated with Parathion.

ALMONDS: To control Oriental Fruit Moth use 1 1/2 pound per 100 gallons of water (apply at petal fall and every 10-14 days thereafter until control is achieved), Peach Tree Borer use 1 pound per 100 gallons of water (apply 2 to 3 sprays to trunk from ground to scaffold limbs timed with moth flight) Fruit Tree Leaf Roller, Cottony Peach Scale, Tent Caterpillar, Green Peach Aphid, certain species of mites, Red-banded Leaf Roller, San Jose Scale, and Lecanium Scale (after all eggs have hatched) use 2 pounds per 100 gallons of water. Do not apply more than once after bloom. Do not apply more than 5 pounds actual Parathion per acre between January 1st and harvest.

APPLES: To control the following pests use 1 to 2 pounds per 100 gallons of water. Codling Moth and Plum Curculio - Apply at petal fall and every 10 to 14 days thereafter until control is achieved. Orange Tortrix, certain species of Scales, Red-banded Leaf Rollers (2nd and 3rd broods), Wolly Apple Aphid, Mealy Bug, Bud Moth, Red Bugs, Fruit Tree Leaf Roller, Rosy and Green Apple Aphid, Leafhopper, Red-banded Leaf Roller (1st brood), Grasshoppers, certain species of mites, European Sawfly and Pear Borer. Do not apply to susceptible varieties. Do not apply within 14 days of harvest.

APRICOTS: To control Codling Moth, Fruit Tree Leaf Roller, Spider Mites, Oriental Fruit Moth, and Peach Twig Borer use 2 1/4 lbs. per 100 gallons of water. For control of bud moth and aphids, use 3/4 to 1 1/2 lbs. per 100 gallons of water. Do not exceed 14 lbs. per acre. Do not apply within 14 days of harvest.

ARTICHOKES: Apply 1 1/2 to 2 lbs. per acre to control plume moth, aphids. Do not apply within 7 days of harvest.

AVOCADOS: To control aphids and foliage worms use at the rate of 2 to 2 1/2 lbs. per 100 gallons of water. Do not apply within 21 days of harvest.

PEACHES: To control Oriental Fruit Moth, Leafhopper, Aphid, Red Spider, Pear Borer, Leaf Roller and Leafminer use 2 pounds per 100 gallons of water per acre. Do not apply within 7 days of harvest.

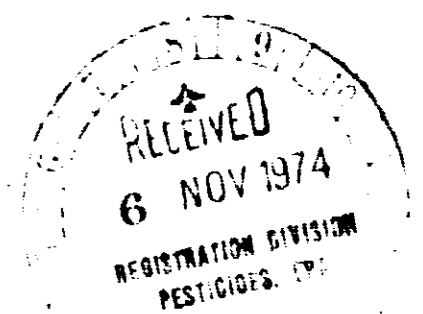
PLUMS: To control Oriental Fruit Moth use 1 1/2 lbs. per 100 gallons of water. For control of bud moth and aphids, use 3/4 to 1 1/2 lbs. per 100 gallons of water. Do not apply within 14 days of harvest.

PEAR: To control European Sawfly, Pear Borer, Leafhopper, Red-banded Leaf Roller, and Pear Borer use 2 pounds per 100 gallons of water. Do not apply within 14 days of harvest.

PEACHES: To control Oriental Fruit Moth, Leafhopper, Pear Borer, Leafminer and thrips, apply 2 lbs. per 100 gallons of water. Do not apply within 7 days of harvest.

APPLES: To control Codling Moth, Pear Borer, Leafhopper, Red-banded Leaf Roller, and Pear Borer use 2 pounds per 100 gallons of water. Do not apply within 14 days of harvest.

PEACHES: To control Oriental Fruit Moth, Leafhopper, Pear Borer, Leafminer and thrips, apply 2 lbs. per 100 gallons of water. Do not apply within 7 days of harvest.



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CELERY: For control of aphids, use 3/4 lb. per 100 gallons. Apply 800 gallons per acre. Do not apply within 14 days of harvest. Do not exceed 4 lbs. per acre. Do not use treated carrot tops for food or feed.

CAULIFLOWER: For control of aphids, armyworms, cabbage looper, diamondback moth, imported cabbageworm, serpentine leafminer and thrips, apply 2 lbs. Do not apply within 7 days of harvest.

CELERY: For control of aphids, use 2 lbs. in 200 gallons of water per acre. Do not apply within 21 days of harvest.

CHERRY: To control Bud Moth, Black Cherry Aphids, Cankerworms, Fruit Moth, Oriental Fruit Moth and San Jose Scale (apply at time crawlers emerge) use 1 to 2 pounds per 100 gallons of water. For mites and aphids use 1/2 to 1 pound per 100 gallons of water. Do not exceed 8 lbs. per acre. Do not apply within 14 days of harvest.

CITRUS: (Grapefruit, Kumquats, Lemons, Limes, Oranges, Tangeloes, Tangerines) To control California Red Scale and Yellow Scale use 2 1/2 lbs. or 1/2 lb. with 1 1/2 to 1 3/4 gallons of light or medium oil emulsion per 100 gallons in a full coverage spray. To control Purple Scale use 1 1/2 lb. or 1/2 lb. with 1 1/2 to 1 3/4 gallons of a light or medium oil emulsion per 100 gallons in a full coverage spray. To control Citriccia and Cottony Cushion Scale use 8 lbs. per 100 gallons and 100 gallons per or 1/4 lb. per 100 gallons in full coverage spray during August to November; increase dose to 1/2 lb. per 100 gallons in a full coverage spray during February and March and 1 lb. during May and June application. To control Citrus Thrips use 6 lbs. per 100 gallons and 100 gallons per acre or 1 lb. per 100 gallons in a full coverage spray at time of petal fall. Repeat in late summer and early fall to protect new growth and prevent scarring of fruit. To control Aphids, Mealy Bugs and Orangeworms apply 1 1/2 to 2 1/2 pounds per 100 gallons of water. Limitations: For less than 16 lbs. per acre rate - Do not apply within 14 days of harvest.

For 16 to 40 lbs. per acre rate - Do not apply within 30 days of harvest.

CORN: Apply 2 lbs. per acre to control European corn borer, armyworm. Do not apply within 14 days of harvest or cutting for forage.

COTTON: Apply 1 to 4 lbs. per acre to control aphids, red spider mite, flea hopper, garden webworm. Do not apply within 7 days of hand picking. Workers entering fields within 24 hours should wear protective clothing.

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CUCUMBERS: Apply 1 to 2 lbs. per acre to control aphids, cucumber beetle, climbing cutworms, leafminer, melon worm, pickle worm, serpentine leafminer, spider mite and thrips. Apply 2 lbs. per acre to control leafhoppers and squash bugs. Make no application before vining or within 15 days of harvest on cucumbers. Do not apply to cucurbits unless plants are dry.

CURRANTS: To control aphids use 1 pound per 100 gallons of water. Do not exceed 3 pounds per acre. Do not apply within 30 days of harvest.

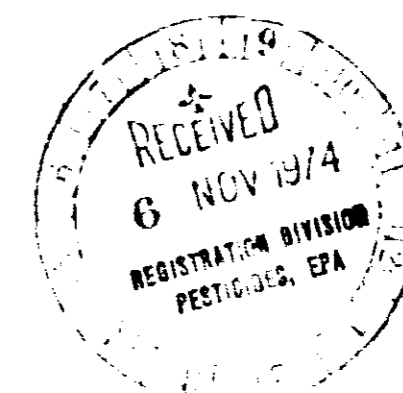
EGGPLANT: Apply 1 to 2 lbs. per acre to control aphids, leafminer. Do not apply within 15 days of harvest.

EGGPLANT: Apply 1 to 2 lbs. per acre to control aphids. Apply 1 1/2 to 2 lbs. per acre to control leafhoppers. Do not apply within 14 days of harvest.

GRAPES: To control Mealy Bug, Leaf Folder, certain species of Mites and Grape Berry Moth use 2 pounds per 100 gallons of water. Apply before fruit is buckshot size, or after harvest.

HOPS: 1 to 2 lbs. per acre to control red spider mite, aphids. Do not apply within 15 days of harvest.

KALE: Apply 2 lbs. per acre to control aphids, armyworm, cabbage looper, flea beetle, diamondback moth, imported cabbageworm, serpentine leafminer, thrip. Do not apply within 14 days of harvest.



LETTUCE: Apply 1 1/2 lbs. per acre to control aphids. Apply 1 1/2 to 2 lbs. per acre to control leafhoppers. Do not apply within 14 days of harvest on leaf lettuce; 7 days of harvest on head lettuce.

MELONS: Apply 1 1/2 lbs. per acre to control aphids, cucumber beetle, climbing cutworms, leafminer, melon worm, pickle worm, serpentine leafminer, spider mite and thrips. Apply 2 lbs. per acre to control leafhoppers and squash bugs. Do not apply within 7 days of harvest on melons. Do not apply to cucurbits unless plants are dry.

MILKWEED SEEDS: Apply 2 lb. per acre to control aphids, armyworm, cabbage looper, flea beetle, diamond-back moth, imported cabbage-worm, serpentine leafminer, thrip. Do not apply within 10 days of harvest.

PEACHES: To control Plum Curculio, Oriental Fruit Moth, San Jose Scale, Fruit Tree Leafroller, Spider Mites, Cottony Peach Scale, and leaf-eating insects use 1 to 2 lbs. per 100 gallons of water. For control of green peach aphids use 1/2 to 3/4 lb. per 100 gallons water. Do not exceed 10 lbs. per acre. Do not apply within 21 days of harvest. Do not apply more than once after bloom. Do not apply more than 5 lbs. actual Parathion per acre between January 1 and harvest. Do not apply if bees are located within 1 mile of orchard.

PEARS: To control Pear Leaf-miner and Black Scale, use 1/2 lb. per 100 gal. with regular oil in spray during June or July. Do not apply later than August 1. Do not exceed 10 lbs. per acre.

PEAS: To control thrips use 1/2 pound in 100 gallons of water per acre. Do not apply within 14 days of harvest.

PEANUTS: Apply 1 to 2 lbs. per 100 gallons of water to control aphids, white-fly, red spider mites, leafhopper, thrips, lace bug, bagworm, cottony cushion scale, juniper webworms, mealy bug. Repeat as necessary.

PEACHES: To control Oriental Fruit Moth and Plum Curculio use 1 pound per 100 gallons of water (apply at petal fall and every 10 to 14 days thereafter until control is achieved), Peach Tree Borer use 1 pound per 100 gallons of water (apply 2 or 3 sprays to trunk from ground to scaffold limbs timed with moth flight) Fruit Tree Leafroller, Cottony Peach Scale, Green Peach Aphid, certain species of mites, Shot-hole Borer, Red-banded Leaf-rollers, San Jose Scale, Cat-facing insects and Lecanium Scale (after all eggs have hatched) use 2 pounds per 100 gallons of water. Do not apply more than once after bloom. Do not apply more than 5 pounds actual Parathion per acre between January 1 and harvest. Do not apply within 21 days of harvest.

PEARS: To control Blister Mites, Psylla, Aphids and Mealy Bugs use 1 to 2 pounds per 100 gallons of water. Do not apply within 14 days of harvest. Do not exceed 14 lbs. per acre.

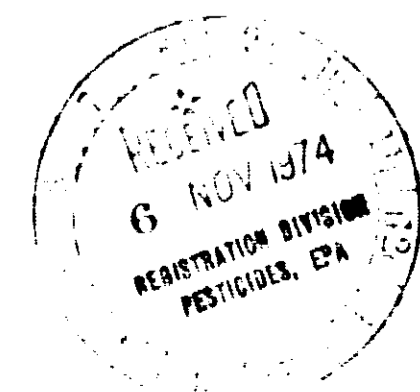
PEARS: Apply 1 to 2 lbs. per acre to control aphids and weevil. Apply 1 lb. per acre to control serpentine leafminer. Do not apply within 10 days of harvest.

PECANS: Aphids, Mites - 1 lb. per 100 gal. of water. Apply full coverage spray. Apply at first sign of insects. Repeat as necessary. Do not apply 15 days or after shucks open. Do not exceed 20 lbs. per acre.

PEPPERS: Apply 1 to 1 1/2 lbs. per acre to control cutworm, pepper maggot, serpentine leafminer and thrips. Apply 1 to 2 lbs. per acre to control fleabeetles. Do not apply within 14 days of harvest.

PEPPERS: To control the full winged part use 1 to 2 pounds per 100 gallons of water. Plum Curculio apply at petal fall and every 10 to 14 days thereafter until control is achieved. San Jose Scale, Green crawler, mealy bug, spider mite, Pear Tree Borer, Thrips, Mealy Plum Scale, Leaf-miner, leafhopper, Aphids, and certain species of mites. Do not apply within 14 days of harvest. Do not exceed 16 lbs. per acre.

PEPPERS: To control the full winged part use 1 to 2 pounds per 100 gallons of water. Plum Curculio apply at petal fall and every 10 to 14 days thereafter until control is achieved. San Jose Scale, Green crawler, mealy bug, spider mite, Pear Tree Borer, Thrips, Mealy Plum Scale, Leaf-miner, leafhopper, Aphids, and certain species of mites. Do not apply within 14 days of harvest. Do not exceed 16 lbs. per acre.



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PUMPKIN: To control the following pests use 16 lbs. per acre in 100 gallons of water. Plum Curculionid (when crawler stage is achieved), San Jose Scale (when crawler stage is achieved), Borer, Bud Moth, Tortrix, Thrips, Mealy Bug, Aphids, Flea Beetles, Rollers, Leafhoppers, Aphids, and certain other insects. Do not apply within 14 days of harvest. Do not exceed 16 lbs. per acre.

PUMPKIN: Apply 1 to 2 lbs. per acre to control aphids, cucumber beetle, climbing cutworms, leafminer, melon worm, pickle worm, serpentine leafminer, spider mite and thrips. Apply 2 lbs. per acre to control leafhoppers and squash bugs. Do not apply within 10 days of harvest. Do not apply to cucurbits unless plants are dry.

RADISH: Apply 1 to 2 lbs. per acre to control aphids, leafminer. Do not apply within 15 days of harvest.

SPINACH: Apply 2 lbs. per acre to control aphids. Do not apply within 14 days of harvest.

SQUASH: Apply 1 to 2 lbs. per acre to control aphids, cucumber beetle, climbing cutworms, leafminer, melon worm, pickle worm, serpentine leafminer, spider mite and thrips. Apply 2 lbs. per acre to control leafhoppers and squash bugs. Do not apply within 15 days of harvest. Do not apply to cucurbits unless plants are dry.

STRAWBERRY: To control Leafroller and Red Spider Mite use 2 pounds in 10 to 15 gallons of water per acre. Repeat at 7 to 10 day intervals. Use only before fruit set or after harvest.

WATERMELON: Apply 1 to 2 lbs. per acre to control aphids, webworms. Do not apply within 15 days of harvest.

WINTER CHERRY: Apply 1 lb. per acre to control aphids. Do not apply within 14 days of harvest.

ZUCCHINI: Aphids, Stink Bugs, Tobacco Rootworm - 1 lb. per 100 gals. of water. Do not apply within 8 days of maturity or 15 days of cutting. Avoid plant injury resulting in contact with the skin or other parts of the body of those exposed in cutting the crop or in eating.

TOMATOES: To control Colorado Potato Beetle, Flea Beetle, Leafhopper, Serpentine Leafminer, Grasshoppers, Whitefly, Aphids and Armyworms use 2 pounds in 20 to 50 gallons of water per acre. Do not apply within 10 days of harvest.

TURNIPS: Apply 2 pounds per acre to control Aphids, Armyworms, Cabbage Looper, Flea Beetle, Diamond-back Moth, Imported Cabbageworm, Serpentine Leafminer and Thrips. Do not apply within 10 days of harvest.

WALNUTS: To control Aphids, Husk Fly, Red Spider and Scale use 1 to 2 pounds per 100 gallons of water. Do not exceed 20 pounds per acre. Repeat at 7 to 10 days for Red Spider. Do not apply after husks open. Do not exceed 40 pounds per acre. DORMANT SPRAYS: For use as a dormant or delayed-dormant spray on deciduous fruit trees to control Aphid and Spider Mite eggs and Scale use at the rate of 1 to 2 pounds per 100 gallons of water with the addition of the correct amount of appropriate oil. Check with the Cooperative Agricultural Extension Service for the proper recommendations.

WHEAT, OATS, BARLEY: Aphids, Armyworms, Hessian Fly, Grass Bug, Stink Bugs, Greenbugs, Winter Grain Mites, Thrips, Spider Mites, Leafhoppers, Cutworms, Grasshoppers, Brown wheat Mite, Plant Bugs, Chinch Bugs, False Chinch Bugs - 1 pound per 2 gallons of water. (Concentrate purposes - 1 pound in 2 gallons of water) Do not apply within 15 days of harvest.

WARRANTY AND LIMITATION OF DAMAGES. Helena Chemical Company warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale, subject to the inherent risks referred to therein. Helena Chemical Company makes no other expressed or implied warranty, including any other expressed or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of Helena Chemical Company is authorized to do so except in writing with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or value, etc.

NET CONTENTS: _____

EPA Reg. No. 5-105-255

