

NET WEIGHT
POUNDS

THOMPSON HAYWARD
FUNGICIDE

WETTABLE POWDER

WARNING Keep Out of Reach of Children

SEE PANEL FOR ADDITIONAL WARNINGS

A FUNGICIDE FOR CONTROL OF:
• EARLY & LATE BLIGHT ON POTATOES
• LEAFSPOT ON SUGAR BEETS & PEANUTS
• SCAB & CERTAIN OTHER DISEASES
ON PECANS • BROWN SPOT ON TOBACCO
• LEAFSPOT AND ALTERNARIA ON CARROTS

ACTIVE INGREDIENT

Triphenyltin hydroxide*

47.5%

INERT INGREDIENTS

52.5%

100.0%

Equivalent to 15.3% Metallic tin

A RESEARCH DISCOVERY OF PHILIPS-DUPHAR B.V., AMSTERDAM, HOLLAND.

Manufactured or sold under one or more of the following U. S. Patents: 3,113,659;
3,140,177; 3,246,253; 3,265,575; 3,395,228; 3,445,575, and other Patents Pending.

EPA REG. NO. 148-689

EPA EST. NO. 148-15-1

T-117-14-A

THOMPSON HAYWARD
CHEMICAL COMPANY
P.O. BOX 383, KANSAS CITY, KANSAS 64110

ACCEPTED
FEB 21 1975
Under the Federal Insecticide, Fungicide, and Rodenticide Act, all pesticides must be registered under EPA Reg. No. 148-689

RECEIVED
7 JAN 1975
REGISTRAR GENERAL
PESTICIDES, EPA

BEFORE USE, READ DIRECTIONS, WARNING AND NOTICE STATEMENTS CAREFULLY

Consult agricultural extension or agricultural experiment station specialists regarding timing recommendations.

DIRECTIONS FOR USE

MIXING: Before adding DU-TER PL-47 to the spray tank mix the desired amount with enough water to form a slurry. Partially fill spray tank with water, add slurry premix while agitating. After mixing thoroughly, add remaining water to spray tank. Continuous agitation within the spray tank is essential. Wash out spray tank thoroughly after use and dispose of washings by burying away from water supplies.

Store in a tightly closed container in a dry place. Destroy container after use, do not reuse.

SUGAR BEETS: DU-TER PL-47 is recommended for control of leafspot (*Cercospora beticola*) on sugar beets. **GROUND APPLICATION**—Apply 4 to 10 ounces per acre in at least 15 gallons of water. Full coverage of the foliage is necessary for best results. **AERIAL APPLICATION**—(helicopter or fixed wing aircraft) Apply 4 to 10 ounces per acre in 5 to 10 gallons of water. Dilute spray should be directed uniformly to all parts of the plant and the gallonage increased according to the size of the plants. Use the lowest rate only in protective schedules, higher rates later in the season or during high infection periods. Apply treatments to begin when leaf spot conditions appear or when the disease is in the area and repeated at 10 to 14 day intervals. Do not treat within 4 days of harvest. Do not graze or feed beet tops to livestock.

POTATOES: EARLY AND LATE BLIGHT—GROUND APPLICATION—Apply 5 to 10 ounces of DU-TER PL-47 per acre in at least 15 gallons of water. Full coverage of the foliage is necessary for best results. A spray pressure of less than 200 lbs. is recommended. **AERIAL APPLICATION**—(helicopter or fixed wing aircraft) Apply 5 to 10 ounces per acre in 3 to 10 gallons of water. For helicopter application fly high enough so as to not vibrate the vines. Dilute spray should be directed uniformly to all parts of the plant and the gallonage increased according to the size of the plants. **IRRIGATION SYSTEM APPLICATION** (solid-set or center pivot system only)—Apply 6 to 10 ounces per acre. Do not apply through center-pivot (circle) system which uses water pressure for movement of system. Irrigation system must be equipped with safety valves or other devices to prevent backsiphoning of pesticide into water source. For complete directions regarding application refer to supplementary information available at point of sale. Application should begin with the appearance of blight weather conditions and continue on a 7 day schedule. Do not treat within 7 days of harvest when applied by ground or aerial application equipment and not within 33 days when applied by irrigation system. The lower rate of application should be used early in the season and the higher rate mid to late season or when blight infection is in the area.

PEANUTS: DU-TER PL-47 is recommended for control of *Cercospora* leafspot on peanuts. **GROUND APPLICATION**—Apply 5 to 8 ounces per acre in 10-100 gallons of water. **AERIAL APPLICATION**—(helicopter or fixed wing aircraft) Apply 5 to 8 ounces per acre in 3 to 10 gallons of water. Use lower rate when leafspot is light, increasing rate as disease pressure increases. Apply in sufficient water for uniform, full-coverage of foliage. Use lower gallonage in early season when plants are small and increase spray volume as plant size increases. Application should begin approximately 6 weeks after planting or as soon as first signs of leafspot appear. Spray applications should continue on a 10 to 14 day schedule. Do not apply within 14 days of harvest. Do not allow hogs to feed on peanuts in treated fields. Hogs from treated peanuts may be used as feed for livestock, do not use vines as feed.

CARROTS: DU-TER PL-47 is recommended for control of *Cercospora* leafspot and *Alternaria* blight on carrots. Apply 4 to 8 oz. per acre, use lower rate when diseases are light, increasing rate as disease pressure increases. Apply in sufficient water for uniform, full-coverage of foliage. 25 to 100 gallons per acre. Use lower gallonage in early season when plants are small and increase spray volume as plant size increases. Application should begin 6 weeks after planting or as soon as first signs of diseases appear. Spray applications should continue at 7-day intervals or as needed for continued control. Do not apply within 14 days of harvest. Do not use tops as feed for livestock.

TOBACCO: DU-TER PL-47 is suggested for control of Brown spot, *Alternaria longipes*, of tobacco in Southeastern United States. Mix one pound per 100 gallons of water and apply 40 to 60 gallon per acre (5 to 6 ounces per acre) as a full coverage spray. Diluted spray should be directed to all parts of the plant. Application should begin immediately after the first pruning (harvest) and repeated immediately after each weekly pruning.

PRECAUTIONS: DU-TER PL-47 may be applied in combination with wettable powder insecticides but should not be used in combination with emulsifiable concentrate or oil spray formulations on sugar beets, tobacco, carrots, peanuts and potatoes (except on potatoes in the States of Washington, Oregon, Idaho, northernmost counties of California and Red River Valley areas of North Dakota and Minnesota where it may be used in tank mix with emulsifiable concentrates of Thiodan, Mata-Systox R, DL-FENO and Guinon). Do not add surfactants, spreaders, or stickers to DU-TER PL-47 sprays. Do not graze dairy or meat animals in treated areas.

PECANS, SCAB, BROWN LEAF SPOT, DOWNY SPOT, POWDERY MILDEW, LIVER SPOT, SOOTY MILD AND LEAF BLOTCH—AERIAL APPLICATION—(helicopter or fixed wing aircraft) Apply 0.75 to 1.5 pounds per acre in a minimum of 20 gallons of water. **GROUND APPLICATION**—Mix 0.2 to 0.6 pounds (3.2 to 9.6 oz.) of DU-TER PL-47 for each 100 gallons of water (1 to 3 lbs. per 500 gallon tank) and apply as a full coverage spray. Dilute spray should be directed to all parts of the tree. Applications should begin at pre-pollination stages when the young leaves are unfolding, and a second application made when the small nuts are forming. Repeat spray applications at 2 to 4 week intervals as needed to maintain control. Use the lower rate for the first two applications or until disease becomes severe, or during dry weather. Use the higher rate during wet weather or during severe scab, powdery mildew, or other disease infections. Do not apply after shucks have started to open.

PRECAUTIONS: DU-TER PL-47 may be applied to pecans in combination with wettable powder insecticides or emulsifiable concentrate formulations. Do not graze dairy or meat animals in treated areas.

WARNING: MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN. (May cause skin irritation). Do not allow contact of powder or spray with skin or eyes, wear goggles or face shield when handling. In case of skin contact wash immediately with soap and water. For eye contact flush with water and immediately get medical attention.

Do not breathe dust or spray mist. Dust hazardous if inhaled. In prolonged handling of dust, wear a protective respirator. Avoid contamination of food, stuffs and feed. Use with caution. Keep out of reach of children. In case of prolonged or frequent use, wear clean, protective clothing and bathe after each exposure.

This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Keep out of any body of water. 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.

NOTICE: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

**SUPPLEMENTARY
LABEL INFORMATION**

DU-TER PL-47

FUNGICIDE

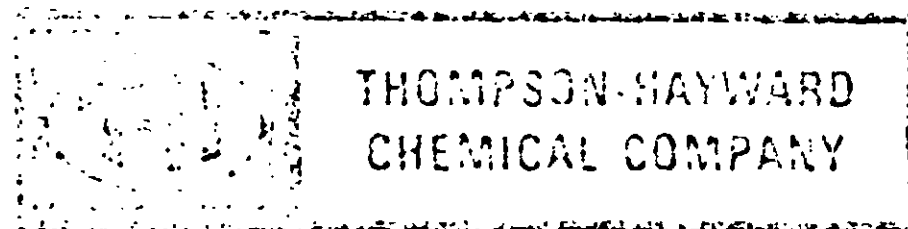
SEE LABEL ON PRODUCT PACKAGE FOR
ADDITIONAL DIRECTIONS, WARNINGS,
PRECAUTIONS AND NOTICE
(WARRANTY).

USE OF SPRINKLER IRRIGATION
EQUIPMENT TO APPLY DU-TER® PL-47
ON POTATOES.

ACTIVE INGREDIENT	
Triphenyltin hydroxide*	47.5%
INERT INGREDIENTS	52.5%
	100.0%

*Equivalent to 15.3% Metallic tin

CG-73-A



THOMPSON-HAYWARD
CHEMICAL COMPANY

FEB 21 1973

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended for the pesticide

**SPRINKLER IRRIGATION EQUIPMENT
TO APPLY DU-TER® PL-47**

GENERAL DIRECTIONS

Apply 6 to 10 ounces of DU-TER® PL-47 per acre, use only solid-set or center-pivot (circle) type equipment (do not apply through center-pivot equipment which uses water pressure to move the system over the field). In solid-set system, application may be made as a part of the irrigation cycle or as a separate treatment. Irrigation system must be equipped with safety valves or other devices to prevent backsiphoning of pesticide into water source.

EQUIPMENT — Tank connected to the suction side of irrigation pump, field sprayer or other pressurized equipment connected to the main irrigation line may be used for injection. Good agitation must be provided in injection tank.

SOLID-SET — Calibration and Use

1. Measure acreage covered by sprinklers.
2. Operate solid-set irrigation system and injection equipment at normal pressures.
3. Fill tank of injection equipment.
4. Adjust flow from injection equipment to use contents over a period of 10 to 30 minutes.
5. For application of DU-TER® PL-47 mix desired amount of product for acreage to be covered (see label for rates per acre, timing, stages of growth and other information) into quantity of water used during prior calibration and operate entire system for amount of time established during calibration. DU-TER® PL-47 should be injected at the end of the irrigation cycle or as a separate application.
6. Stop injection equipment after treatment is completed and continue to operate irrigation system until DU-TER® PL-47 has been cleared from the last sprinkler head. Refer to dye method of timing discussed below.

CENTER-PIVOT — Calibration and Use

1. Operate center-pivot system and injection equipment at normal pressures.
2. Fill tank of injection equipment.
3. Operate entire system for one complete circle, measure time required, amount of water used and acreage covered.
4. For application of DU-TER® PL-47 mix desired amount of product for acreage to be covered (see label for rates per acre, timing, stages of growth and other information) into quantity of water used during prior calibration and inject into system continuously for one complete revolution of the field.
5. If irrigation is to be stopped after DU-TER® PL-47 has been applied, shut off the injection equipment after treatment is completed and continue to operate irrigation system until DU-TER® PL-47 has been cleared from the last sprinkler head. Refer to dye method discussed below.
6. With center-pivot system irrigation cycle may be continued after injection has been stopped.

DYE CALIBRATION

A recommended procedure for establishing the time which will elapse from stopping the injection of DU-TER® PL-47 to its clearance from the last sprinkler is as follows:

1. During calibration of injection equipment as described above, insert a water soluble Food, Drug and Cosmetic approved dye into the irrigation line at the injection point and record the time it takes for the dye to be released from the last sprinkler head.
2. Collection of water from the last sprinkler in a glass jar will assist in observing when dyed water reaches that point.

