Reg # 400-398 PM_25

HARVADE[®]-25 HARVEST GROWTH REGULANT FOR COTTON

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corresive, causes burns. De net get in eyes, en skin er en clething. Harmist if swallewed, inheled or absorbed through skin. Avoid breathing vapors. Wear protective clothing and impermeable gloves during mixing, leading, flagging, or application of this product. Wash theroughly with seep and water after use and before eating or smoking. Romove contaminated clothing and wash before reuse. **ENVIRONMENTAL HAZARDS**

Be not apply directly to water or wetlands (swamps, bogs, marshes and patholes). Do not contaminate water when dispesing of equipment washwaters. Do not apply when weather conditions favor drift from treated area.

DIRECTIONS FOR JSE

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

Do not apply this product through any type of irrigation system.

STORAGE AND DISPOSAL Do not contaminate water, feed or feed by storage or dispesal.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, cr the Hazardous Waste representative at the nearest EPA Regional

Office for guidance. CONTAINER DISPOSAL:

Plastic Centainers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

NOT REVIEWED Conordance with PR No. . . Labeling

10-11.90



COMPOSITION

Active Ingredient: (% by weight) dimethipin (2.3-Dihydro-5,6-dimethyl-1, 4-dithiin 1,1,4,4-tetraoxide*) 22.4%** Inert Ingredients: 77.6% Total: 100.0%

*U.S. Patent No. 3,920,438 **Contains 2 pounds of active ingredient per U.S. gallon.

KEEP OUT OF REACH OF CHILDREN DANGER STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash theroughly with soop and water. Call a physician immediately. IF SWALLOWED: Drink promptly a large quantity of milk, ogy whiles or golatin solution. If these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Note to Physician: Probable processi damage may contraindicate use of gastric lavage.

IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Contact a physician. IF INHALED: Remove to wesh air; If abnormal symptoms viewelop, contact a physician. SEE LEFT PANEL FOR ADDITIONAL PRECAUTICKARY STATEMENTS.

UNIROYAL CHEMICAL COMPANY, INC. 4.4 Middlebury, CT 06749 EPA REG. NO. 400-398 EPA EST. NO. CHARVABE is a registered trademark of Uniroyal Chemical Company. Inc. Cosyright 1990, Unirayal Chemical Company, Inc. NET CONTENTS:

001 10-11-90

MIXING INSTRUCTIONS

SHAKE CONTAINER VIGOROUSLY BEFORE USE. Fill the spray tank with 2/3 of the required amount of water. Add the desired amount of HARVADE-25F and remaining required amount of water. HARVADE-25F will suspend easily with minimum agitation. To assure that the container is emptied, triple rinse (or equivalent) into the spray tank.

DIRECTIONS FOR USE

GENERAL INFORMATION:

HARVADE-25F is a plant growth regulant that effects certain plant processes which lead to defoliation in cotton. Since HARVADE-25F must enter the plant through the leaves for optimum activity, it must be applied in a manner that will allow maximum penetration through the leaf surface. Complete coverage of the entire plant is essential for optimum effectiveness. HARVADE-25F will improve the harvest operation by also desiccating most mature morningglory species. Desiccation of other weed species such as sicklepod, croton, and teaweed has been observed. Good coverage of these above weeds is necessary for optimum results.

APPLICATION EQUIPMENT:

Nearly all spray application equipment is suitable for applying HARVADE-25F if fine spray droplets can be deposited. If uerial equipment is used, it should be fitted with a fixed boom set at 45 to 90° relative to the trailing edge of wing and flown 10 to 12 ft. above the crop canopy.

COMPATIBILITY:

HARVADE-25F is compatible with most commonly used cotton desiccants, defoliants, and insecticides. HARVADE-25F has been shown to be incompatible with EPN when used as a tank mix. Consult your supplier or Uniroyal Chemical for details.

APPLICATION TIMING:

Optimum defoliation will be obtained when HARVADE-25F is applied to mature cotton plants, i.e. 70% or more of the bolls open, no active growth, lower leaves have purple tinge. Apply 7 to 14 days prior to anticipated harvest.

APPLICATION RATE:

Air Application:

Mix 1 to 1% pts. (16 to 20 fl. oz.) of HARVADE-25F in a minimum of 5 gallons of spray solution per acre. If cotton is rank or conditions favor regrowth, the higher rate is desirable. A second application of HARVADE-25F at 1 pint (16 fl. oz.)/A may be necessary 5 to 7 days later. See Application Notes.

Ground Application:

Mix 1 to 1¹/₄ pts. (16 to 20 fl. oz.) of HARVADE-25F in 10 to 20 gallons of spray solution per acre. If cotton is rank or conditions favor regrowth, the higher rate is desirable. A second application of HARVADE-25F at 1 pint (16 fl. oz.)/A may be necessary 5 to 7 days later. See Application Notes.

APPLICATION NOTES:

Partial defoliation from the first application will most likely result from one or more of the following conditions:

- Rank cotton foliage is dense enough to inhibit spray droplets from reaching the bottom leaves.
- Plants are actively growing, with new growth and fruiting evident at the top.
- Bolls are not 70% open
- Cotton is drought stressed. Under this condition, applications should be made before mid morning or at late afternoon.
- Night temperatures are below 55°F for 3 to 4 nights after application.
- Rainfall occurs within 6 hours after application.

Under these conditions, a second application at 1 pint (16 fl. oz.)/A may be required 5 to 7 days after the initial application. If only one application is desired on rank actively growing cotton, a mixture of HARVADE-25F with a phosphate defoliant has been shown to be advantageous.

TANK MIX COMBINATIONS: Before applying a tank mix, read each label and follow the Precautionary Statements on each label. HARVADE-25F plus PREP**

HARVADE-25F may be applied with 11/sto 22/3 pints of PREP = to enhance boll opening and regrowth control. Apply this tank mixture when the bolls are 60-70% open

HARVADE-25F plus GRAMOXONE . SUPER**

On rain-belt cotton, if a high percentage of cotton leaves are still actively growing, then 4 to 6 fl. oz./A of GRAMOXONE - SUPER should be added to the labeled rate of HARVADE-25F for more complete defoliation.

HARVADE-25F plus DROPP - 50WP***

Under conditions that promote excessive regrowth, a tank mix of HARVADE 25F at 1% pint (20 fl. oz.)/A plus DROPP 50WP at 0.1 to 0.2 lb./A provides excellent regrowth control. This combination also provides defoliation when night time temperatures are below 60° to 70° F for 2 to 3 nights preceeding or following application.

*PREP - is the registered trademark of Rhone-Poulenc Ag Company

**GRAMCACIVE * SUPER is the registered trademark of ICI Americas. Inc.

***DROPP - is the registered trademark of NOR-AM Chemical Co.

USE PRECAUTIONS

- 1. Do not plant rotational crops within 6 months after application.
- 2. Keep HARVADE-25F drift from non-targeted areas.
- 3a. Do not apply HARVADE-25F directly to, or permit mist to drift onto, citrus, broccoli, almonds, grapes, peppers, tomatoes, lettuce, alfalfa, sugarbeets or wheat. These crops may sustain significant injury if contacted with HARVADE-25F.
- b. Do not apply HARVADE-25F to, or permit mist to drift onto, soil that will subsequently be seeded to peppers, tomatoes, lettuce, broccoli, alfalfa or sugarbeets. Significant crop injury may occur from such an application.
- c. Do not apply HARVADE-25F to, or permit mist to drift onto, irrigation water that will subsequently be applied to peppers, tomatoes or lettuce.

IMPORTANT NOTICE — Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnermal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

PM- 25

HARVADE[®]-25F HARVEST GROWTH REGULANT FOR COTTON

PRECAUTIONARY STATEMENTS NAZARDE TO NUMANS AND DOMESTIC ANIMALS DANGER

6.

Reg # 400-398

Carresive, causer burns. Do not pet in eves, on akin or so ciething. Harmful If swallowed, inhaled or absorbed through skin. Avoid brea-thing vapers. Wear prejective slothing and impermessie gloves during mixing, leading, flagging, or sppRcation of this preduct. Wash thoroughly with seep and water after use and before action a special or state use and before esting or smoking. Remove contemi-nated cisthing and wash before rouse.

ENVIRONMENTAL MAZAROS

De not apply directly to water or wetlands (swamps, bogs, marshes and petholes). De not contaminate water when dispecting of equip-ment westiwaters. Be not apply when westher conditions layor drift from trasted ores.

DIRECTIONS FOR USE

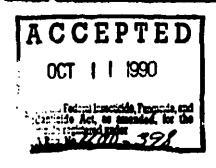
It is a violation of Federal Law to use this product in a manner inconsistent with its labelina.

Do not apply this product through any type of impation system.

STORAGE AND DISPOSAL Do not contaminate water, load or feed by sterige er dispesal.

PESTICIDE DISPOSAL: Posticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. CONTAINER DISPOSAL:

Plastic Schlainers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.



UNIROYAL CHEMICAL

COMPOSITION

Active Ingredient: (% by weight) dimethipin (2,3-Dihydro-5,6-dimethyl-1, 4-dithiin 22.4%** 1,1,4,4-tetraoxide*)

Inert Ingredients:	 77.6%
•	
Tatal	100.0%

*U.S. Patent No. 3.920.438 **Contains 2 pounds of active ingredient per U.S. gallon.

KEEP OUT OF REACH OF CHILDREN DANGER STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wesh theroughly with soop and water. Call a physician immediately. IF SWALLOWED: Drink promptly a lorge quantity of milk, and whites or galatin solution. If these are not available, drink large quantities of water. Avoid stochol, Call a anysician immediately. Note to Physician: Prebable mucesel damage may contraindi-

cale use of gastric lavage. IF IN EYES: Fluch eyes with planty of water for at least 15 minutes. Contact a physician. IF INHALED: Remove to tresh air; if absormal, sypptems develop, contact a physician. SEE LEFT PANEL FOR ADDITIONAL FRECAUTIONARY STATEMENTS.

1 1 1 UNINOYAL CHEMICAL COMPANY, INC. • •. • Middlebury, CT 08749 EPA REG. NO. 400-398 EPA EST. NO. HARYADE is a registered trademark of Unireyal Chemical Company, Inc. Copyright 1990, Unireyal Chemical Company, Inc. NET CONTENTS:

001

MIXING INSTRUCTIONS

 $\boldsymbol{\mathcal{Z}}$

SHAKE CONTAINER VIGOROUSLY BEFORE USE. Fill the spray tank with 2/3 of the required amount of water. Add the desired amount of HARVADE-25F and remaining required amount of water. HARVADE-25F will suspend easily with minimum agitation. To assure that the container is emptied, triple class (or equivalent) into the spray tank.

DISTICTIONS FOR USE

GENERAL INFORMATION:

HARVADE-25F is a plant growth regulant that effects certain plant processes which lead to defoliation in cotton. Since HArdVADE-25F must enter the plant through the leaves for optimum activity, it must be applied in a manner that will allow maximum penetration through the leaf surface. Complete coverage of the entire plant is essential for optimum effectiveness. HARVADE-25F will improve the harvest operation by also desiccating most mature morninggiory species. Desiccation of other weed species such as sicklepod, croton, and teaweed has been observed. Good coverage of these above weeds is necessary for optimum results.

APPLICATION EQUIPMENT:

Nearly all spray application equipment is sultable for applying HARVADE-25F if fine spray droplets can be deposited. If aerial equipment is used, it should be fitted with a fixed boom set at 45 to 90° relative to the trailing edge of wing and flown 10 to 12 ft. above the crop canopy.

COMPATIBILITY:

HARVADE-25F is compatible with most commonly used cotton desiccants, defoliants, and insecticides. HARVADE-25F has been shown to be incompatible with EPN when used as a tank mix. Consult your supplier or Uniroyal Chemical for details.

APPLICATION TIMING:

Optimum defoliation will be obtained when HARVADE-25F is applied to mature cotton plants, i.e. 70% or more of the bolls open, no active growth, lower leaves have purple tinge. Apply 7 to 14 days prior to anticipated harvest.

APPLICATION RATE:

Air Application:

Mix 1 to 1% pts. (16 to 20 fl. oz.) of HARVADE-25F in a minimum of 5 gallons of spray solution per acre. If cotton is rank or conditions favor regrowth, the higher rate is desirable. A second application of HARVADE-25F at 1 pint (16 fl. oz.)/A may be necessary 5 to 7 days later. See Application Notes.

Ground Application:

Mix 1 to 1% pts. (16 to 20 fl. oz.) of HARVADE-25F in 10 to 20 gallons of spray solution per acre. If cotton is rank or conditions favor regrowth, the higher rate is desirable. A second application of HARVADE-25F at 1 pint (16 fl. oz.)/A may be necessary 5 to 7 days later. See Application Notes.

APPLICATION NOTES:

Partial defoliation from the first application will most likely result from one or more of the following conditions:

- Rank cotton follage is dense enough to inhibit spray droplets from reaching the bottom leaves.
- Plants are actively growing, with new growth and fruiting evident at the top.
- · Bolls are not 70% open
- Cotton is drought stressed. Under this condition, applications should be made before mid morning or at late afternoon.
- Night temperatures are below 55°F for 3 to 4 nights after application.
- Rainfall occurs within 6 hours after application.

Under these conditions, a second application at 1 pint (16 fl. oz.)/A may be required 5 to 7 days after the initial application. If only one application is desired on rank actively growing cotton, a mixture of HARVADE-25F with a phosphate defoliant has been shown to be advantageous.

TANK MIX COMBINATIONS: Before applying a tank mix, read each label and follow the Precautionary Statements on each label. HARVADE-25F alus PREP**

HARVADE-25F may be applied with 11/3to 22/3 pints of PREP to enhance boll opening and regrowth control. Apply this tank mixture when the bolls are 60-70% open.

HARVADE-25F plus GRAMOXONE® SUPER**

On rain-belt cotton, if a high percentage of cotton leaves are still actively growing, then 4 to 6 fl. oz./A of GRAMOXONE* SUPER should be added to the labeled rate of HARVADE-25F for more complete defoliation.

HARVADE-25F plus DROPP*** 60WP***

Under conditions that promote excessive regrowth, a tank mix of HARVADE 25F at 1% plnt (2011. oz.)/A plus DROPP 50WP at 0.1 to 0.2 lb./A provides excellent regrowth control. This combination also provides defoilation when night time temperatures are below 60° to 70° F for 2 to 3 nights preceeding or following application

*PREP® is the registered trademark of Rhone-Poulenc Ag Company

**GRAMOXONE® SUPER is the registered trademark of ICI Americas, Inc.

***DROPP® is the registered trademark of NOR-AM Chemical Co.

USE PRECAUTIONS

S

7

1

- 1. Do not plant rotational crops within 6 menths after application.
- Keep HARVADE-25F drift from non-targeted areas.

(

(

(

(

- 3a. Do not apply HARVADE-25F directly to, or permit mist to drift onto, citrus, broccoli, almonds, grapes, peppers, tomatoes, lettuce, alfalfa, sugarbeets or wheat. These crops may sustain significant injury if contacted with HARVADE-25F.
- b. Do not apply HARVADE-25F to, or permit mist to drift onto, soil that will subsequently be seeded to peppers, tomatoes, lettuce, broccoli, alfalfa or sugarbeets. Significant crop injury may occur from such an application.
- c. Do not apply HARVADE-25F to, or permit mist to drift onto, irrigation water that will subsequently be applied to peppers, tomatoes or lettuce.

IMPORTANT NOTICE — Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not researably foreseeble to seller, and buyer assumes the risk of any such use.