

## GENERAL INFORMATION

ENDOTHAL HARVEST AID is a water soluble formulation of disodium endothal containing a special inorganic salt and a wetting agent for use as a defoliant or desiccant for drying out, hardening and removing green plant growth from certain standing seed crops prior to harvesting to permit direct combining, such as alfalfa and clover.

Use the recommended rate of ENDOTHAL HARVEST AID with water as a carrier. In general, apply 10 gallons of total spray per acre in aerial applications and 15 to 20 gallons of total spray per acre in ground applications. ENDOTHAL HARVEST AID mixes readily in water and remains uniformly in solution.

In aerial applications complete coverage of plants with ENDOTHAL HARVEST AID in the liquid state is essential for best results. Therefore, large spray drop-size should be used and applications should be made preferably during periods of highest relative humidity (early morning or evening) if daytime temperatures are expected to reach 80° or higher.

Seed crops should not be sprayed until the seed is mature and the plants have lost moisture normally following the end of the irrigation season. Spraying before the seed has reached maximum dry weight may result in yield reduction. Seed crops are normally ready for combining 7 to 14 days after treatment. For best results combine the seed crop as it is ready for harvest.

## DIRECTIONS FOR USE (Seed Crops Only—See Warning)

**ALFALFA AND CLOVERS (Crimson C., Alsike C., Ladino C., Red C., Sweet C. and White C.).**

FOR AERIAL APPLICATIONS the following rates are recommended:

**LIGHT STANDS:** Use 1 to 1½ gallons of ENDOTHAL HARVEST AID in 8½ to 9 gallons of water per acre in one application.

**MEDIUM STANDS:** Use 1½ gallons of ENDOTHAL HARVEST AID in 8½ to 9 gallons of water per acre in one application.

**HEAVY STANDS:** Use 1 to 1½ gallons of ENDOTHAL HARVEST AID in 8½ to 9 gallons of water per acre and repeat application in 5 to 7 days; or use 2 gallons of ENDOTHAL HARVEST AID in 8 gallons of water per acre in one application.

FOR GROUND APPLICATION use the same rates of ENDOTHAL HARVEST AID per acre, but increase the water to make a total spray of 15 to 20 gallons per acre.

WHEN TO COMBINE is dependent on the weather but usually the desiccated alfalfa or clover is ready to combine 10 to 14 days after treatment.



# ENDOTHAL HARVEST AID

A Harvest Aid for Alfalfa and Clover

Contains 0.65 lbs. Disodium Endothal 100% per gallon  
(or .52 lbs. Endothal Acid)

ACTIVE INGREDIENT	6.3%
Disodium Salt of Endothal*	93.7%
INERT INGREDIENTS	
TOTAL	100.0%

\*7-Oxabicyclo (2.2.1) heptane-2,3-dicarboxylic acid equivalent 5.1%

## WARNING

**KEEP OUT OF REACH OF CHILDREN**

See Specific Warning and Caution Statements on Side Panel

USDA Registration No. 4581-147

NET CONTENTS

U.S. GALLONS

**AGCHEM-DECCO DIVISION—PENNWALT CORPORATION**

TACOMA, WA. PHILADELPHIA, PA. MONROVIA, CA.  
OAK BROOK, IL. BRYAN, TX. FRESNO, CA. MONTGOMERY, AL

**WARNING**  
MAY BE FATAL IF SWALLOWED  
IRRITATING TO SKIN, NOSE, EYES, AND  
MAY BE ABSORBED THROUGH SKIN.  
AVOID BREATHING SPRAY MIST.

Do not get in eyes, on skin, or on clothing. If on skin or eyes with plenty of water for at least 15 minutes. If swallowed, give cold milk or cold water. Bathe and change clothing at least daily while contaminated.

This product is toxic to wildlife. Apply this product during periods of low wildlife activity.

## CAUTION

Avoid contact with or drift to other crops. To avoid drift use coarse sprays and do not use sprayer at the end of each day's use. Use only for planting purposes only. Do not use for feeding. Do not feed treated forage or threshing areas.

DO NOT REUSE CONTAINER. DESTROY

## NOTICE

Pennwalt Corporation warrants that this product conforms to the description on the label and is reasonably safe for use, subject to the risks inherent in the use of such products. Pennwalt Corporation makes no other express or implied warranty of FITNESS or of MERCHANTABILITY. Pennwalt Corporation is authorized to do so without reference to this warranty. Any damages or claims shall be limited to direct damages, and shall not include such as loss of profit, or values.

ACCEPTED

Sept 15 1971

U.S. DEPARTMENT OF AGRICULTURE  
FEDERAL AGRICULTURAL MECHANIZATION ADMINISTRATION  
WASHINGTON, D.C. 20250

MADE IN U.S.A.

59201 14G1

## AL INFORMATION

water soluble formulation of disodium endothal and a wetting agent for use as a defoliant or thinning, and removing green plant growth from crops prior to harvesting to permit direct combining.

ENDOTHAL HARVEST AID with water as a carrier. 15 to 20 gallons of total spray per acre in aerial applications and 8 to 10 gallons per acre in ground applications. ENDOTHAL HARVEST AID is water soluble and remains uniformly in solution.

Coverage of plants with ENDOTHAL HARVEST AID should be uniform for best results. Therefore, large spray drop applications should be made preferably during high humidity (early morning or evening) if daytime temperature is 80° or higher.

Apply until the seed is mature and the plants have reached the end of the irrigation season. Spraying during high humidity may result in yield reduction. For best results, combine 7 to 14 days after treatment. Harvest crop as it is ready for harvest.

## CONDITIONS FOR USE

Use Only—See Warning

Use on C., Alsike C., Ladino C., Red C., Sweet C.

The following rates are recommended:

15 to 20 gallons of ENDOTHAL HARVEST AID in 8 1/2 gallons of water per acre in one application.

8 to 10 gallons of ENDOTHAL HARVEST AID in 8 1/2 gallons of water per acre in one application.

15 to 20 gallons of ENDOTHAL HARVEST AID in 8 1/2 gallons of water per acre in one application and repeat application in 5 to 7 days; or use 20 gallons of ENDOTHAL HARVEST AID in 8 gallons of water per acre in one application.

Use the same rates of ENDOTHAL HARVEST AID with water to make a total spray of 15 to 20 gallons per acre.

Apply on the weather but usually the desiccated crop should be harvested 10 to 14 days after treatment.



# ENDOTHAL HARVEST AID

A Harvest Aid for Alfalfa and Clover

Contains 0.65 lbs. Disodium Endothal\* 100 per gallon (or .52 lbs. Endothal Acid)

ACTIVE INGREDIENT	Disodium Salt of Endothal*	6.3%
INERT INGREDIENTS		93.7%
TOTAL		100.0%

\*7-Oxabicyclo (2.2.1) heptane-2,3-dicarboxylic acid equivalent .5.1%

## WARNING

KEEP OUT OF REACH OF CHILDREN

See Specific Warning and Caution Statements on Side Panel

USDA Registration No. 4581-147

NET CONTENTS

U.S. GALLONS

AGCHEM-DECCO DIVISION—PENNWALT CORPORATION

TACOMA, WA. PHILADELPHIA, PA. MONROVIA, CA.  
OAK BROOK, IL. BRYAN, TX. FRESNO, CA. MONTGOMERY, AL.

## WARNING

MAY BE FATAL IF SWALLOWED

IRRITATING TO SKIN, NOSE, EYES, AND THROAT

MAY BE ABSORBED THROUGH SKIN.

AVOID BREATHING SPRAY MIST.

Do not get in eyes, on skin, or on clothing. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes get medical attention. If swallowed, give cold milk or cold water. Call a doctor immediately. Bathe and change clothing at least daily while using.

This product is toxic to wildlife. Apply this product only as specified on this label.

## CAUTION

Avoid contact with or drift to other crops, trees, or plants as injury may occur. To avoid drift use coarse sprays and do not apply in windy weather. Wash out sprayer at the end of each day's use. Seed from treated fields should be used for planting purposes only. Do not use seed for food, feed, or oil purposes. Do not feed treated forage or threshings to livestock. Do not graze treated areas.

DO NOT REUSE CONTAINER. DESTROY WHEN EMPTY.

## NOTICE

Pennwalt Corporation 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, subject to the risks referred to therein. Pennwalt Corporation makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of Pennwalt Corporation 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 damages such as loss of profits or values.

ACCEPTED

Sept 5, 1971

THIS PRODUCT CONFORMS TO THE REQUIREMENTS OF THE FEDERAL INSECTICIDE ACT FOR FEDERAL TOXIC SUBSTANCE REGISTRATION UNDER SECTION 251-147

MADE IN U.S.A.

5 9201-14G15C

PRINTED IN U.S.A.

**ADDITIONAL INFORMATION**

...it and ... plant growth from ...

...with water ...

...with ENDOTHAL HARVEST ...

...until the seed is mature and the plants have ...

**CONDITIONS FOR USE**

... (See Warning)

... Alfalfa C., Ladino C., Red C., Sweet C.

... are recommended.

... 8.75

... 8.75

... use 2

... 15 to 20 gallons

... usually the dedicated



# ENDOTHAL HARVEST AID

A Harvest Aid for Alfalfa and Clover

Contains 0.65 lbs. Disodium Endothall 100% per gallon  
(or .52 lbs. Endothall Acid)

ACTIVE INGREDIENT	
Disodium Salt of Endothall*	6.3%
INERT INGREDIENTS	93.7%
TOTAL	100.0%

\*7-Oxabicyclo (2.2.1) heptane-2,3-dicarboxylic acid equivalent 5.1%

**WARNING**

**KEEP OUT OF REACH OF CHILDREN**

See Specific Warning and Caution Statements on Side Panel

USDA Registration No. 4581-147

NET CONTENTS	U.S. GALLONS
--------------	--------------

**AGCHEM-DECCO DIVISION—PENNWALT CORPORATION**

TACOMA, WA	PHILADELPHIA, PA	MONROVIA, CA
AKRON, OH	BRYAN, TX	FRESNO, CA
MONTGOMERY, AL		

**WARNING**

- MAY BE FATAL IF SWALLOWED
- IRRITATING TO SKIN, NOSE, EYES, AND THROAT
- MAY BE ABSORBED THROUGH SKIN.
- AVOID BREATHING SPRAY MIST.

Do not get in eyes, on skin, or on clothing. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes get medical attention. If swallowed, give cold milk or cold water. Call a doctor immediately. Bathe and change clothing at least daily while using.

**CAUTION**

Avoid contact with or drift to other crops, trees, or plants as injury may occur. Do not apply to other crops, trees, or plants as injury may occur. Do not apply to other crops, trees, or plants as injury may occur.

DO NOT REUSE CONTAINER. DESTROY WHEN EMPTY.

**NOTICE**

Penwalt Corporation warrants that the material contained herein is true and correct to the best of our knowledge and belief. The Director of the Federal Bureau of Investigation has advised that this information is not to be disseminated to the public without the express written consent of the FBI. Penwalt Corporation is not responsible for any damage or injury resulting from the use of this information.