

Reg # 10107-21

PM-14

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAY 26 1994

TOM KOHMETSCHER
CORN BELT CHEMICAL COMPANY
BOX 410
MCCOOK, NE. 69001

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 04/10/94 Response to PR Notice 93-7
EPA Reg. No. 10107-21
CYTHION

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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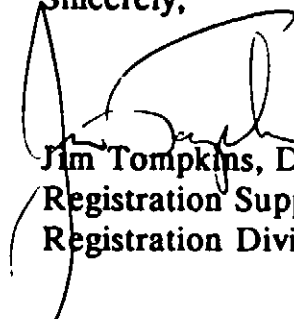
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Tom Kohmetscher
CORN BELT CHEMICAL COMPANY
BOX 410
MCCOOK NE 69001

Comment for: EPA Reg Nr.10107-21
CYTHION

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

The glove requirement for "applicators and other handlers" in the Personal Protective Equipment" section on your proposed labeling is missing or does not match the chemical-resistance category identified on your proposed labeling. Correct the chemical-resistance category statement (if necessary) to state: "Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart." Remove the incorrect glove requirement (if any) and add "Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton". The exact location is shown in Sections A and B on Part I of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

The following statement on your proposed label is not required for this product: "Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas." Delete it from the Agricultural Use Requirements box.

The glove requirement for early entry in the Agricultural Use Requirements box on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton". The exact location is shown in Sections F and G on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

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CORN BELT CHEMICAL COMPANY
EPA Reg. Number: 10107-21
CYTHION
Application date: 04/10/94
Original Submission

Delete the crossed-out statements on your proposed label.
They are redundant statements or phrases.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin. Do not breathe dust or spray mist. Avoid contact with eyes, skin, or clothing.

PERSONAL PROTECTIVE EQUIPMENT

- Applicators and other handlers (other than mixers and loaders) must wear:
- Long sleeved shirt and long pants.
 - Chemical-resistant gloves such as barrier laminate Butyle Rubber or Nitrile Rubber or Viton
 - Shoes plus socks
- Mixers and loaders must wear:
- Long sleeved shirt and long pants.
 - Chemical-resistant gloves such as barrier laminate Butyle Rubber or Nitrile Rubber or Viton
 - Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d) (4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters. 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 area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flames.

NOTE TO PHYSICIANS: In case of Emergency - call CHEMTREC (800) 424-9300

DIRECTIONS FOR USE

It is a violation of state and Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Written or oral warnings must include the following information:

"CAUTION, Area to be treated with MALATHION (date of application). Do not enter without appropriate protective clothing until sprays have dried." Or in the case of Citrus, Grapes, Nectarines and Peaches, "Do not enter treated areas to perform activities that involve substantial or prolonged contact with treated foliage for 1 day. If accidentally exposed, consult the Statement of Practical Treatment portion on the label for first aid recommendations."

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or Viton
- Shoes plus socks

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

- Do not enter treated areas without protective clothing until sprays have dried.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal.

STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Protect from temperatures below 0°F.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Undiluted spray droplets of MALATHION will permanently damage automobile paint. Cars should not be sprayed. If accidental exposure does occur, the car should be washed immediately. Consult your state experiment station or state extension service for proper timing of sprays.

AGRICULTURAL USES: DIRECTION FOR USE: Do not use this product for any uses other than those specified on this label.

OUTDOOR ADULT MOSQUITO CONTROL: Treat Shrubbery and Vegetation where Mosquitoes may rest. Shrubbery and Vegetation around Stagnant Pools, Marshy Areas, Ponds and Shore lines may be treated. Application of this product to any Body of Water is Prohibited.

MALATHION is used undiluted in specially designed aircraft or ground equipment capable of applying ultra low volumes for control of the insects indicated below. Aerial applications are most effective when made at a boom height of 5 feet and a swath width of 50 feet. Do not make application when winds exceed 5 mph. Mist blowers and boom sprayers utilizing a controlled air flow to facilitate particle size and spray deposition may be used at a vehicle speed of 4 to 10 mph. Mist blowers with a pump capable of producing up to 40 psi and blower speeds of 2600 rpm are satisfactory. Use flat fan nozzles, 8001 to 8002, placed 30 degrees into air blast or rotary atomizers into the air blast that produce an efficient spray particle with a mass medium diameter of 40 to 100 microns. Swath widths should not exceed 30 feet, and applications should not be made when winds exceed 5 mph.

Boom sprayers with a filtered rotary air compressor, either PTO or gas engine driven or an air pump capable of producing at least 12 psi are satisfactory. Use air pressure on chemical tanks and an accurate metering valve and gauge for proper air and liquid mixture. Pneumatic-type spray nozzles, as suggested by equipment manufacturer should be used for spray particles with mass medium diameter of 30 to 100 microns. Applications should not be made when winds exceed 5 mph. Repeat applications should be made as necessary unless otherwise specified.

ALFALFA: Alfalfa caterpillar, Western yellow striped armyworm use 8-12 fluid ounces per acre. Use lower rate when larvae are small. May be applied on day of harvest or grazing. Use higher rate when larvae are large or when alfalfa is baled. When using higher rate wait 5 days before grazing or harvest. Alfalfa weevil larvae use 1 pint per acre. Apply when day temperatures are expected to exceed 65 degrees F, and when 50-75% of leaves show feeding damage. Wait 5 days for grazing or harvest. Beet Armyworms use 1/2-1 pint per acre. Use lower rate when larvae are small. May be applied on day of harvest or grazing. Do not apply to alfalfa in bloom. Do not apply to seed alfalfa.

BEANS: (fava, green snap, Navy, red kidney, wax, dry, blackeye) Mexican Bean Beetle, Leafhoppers, Green Cloverworm, Lygus Bug use 1/2 pint per acre. Apply 1 day before harvest.

CORNBELT

**CYTHION
ULV**

ORGANO PHOSPHATE

THE PREMIUM GRADE MALATHION

MALATHION ULV Concentrate

ACTIVE INGREDIENTS:
Malathion** 91

INERT INGREDIENTS 9

**O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate
*Cythion is a registered trademark of American Cyanamid Company

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touch back of throat with finger. Do not give anything by mouth to an unconscious person. Call a physician.

IF ON SKIN: Wash with plenty of soap and water. Call a physician.

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

NOTE TO PHYSICIAN: This product may cause cholinesterase inhibition. A pine is antidotal. 2-PAM may be effective as an adjunct to atropine.

Before using, read the directions contained on this label or the proper methods and procedures which must be followed to achieve effective insect control and avoid permanent damage to automobile and other paint finishes.

EPA Reg. No. 10107-21

EPA Est. No. 10107-NR

NET CONTENTS 5.0 LBS. (2.27 kg)

MANUFACTURED FOR: Cornbelt Chemical Co., P. O. Box 410, McCook, Nebraska 69001

BEST AVAILABLE

or allow worker entry into treated areas selected entry interval (REI) of 12 hours.

d for early entry to treated areas that is less than the Worker Protection Standard and that does not require anything that has been treated, such as soil, or water is:

rails

ical-resistant gloves, such as barrier lambrubber, nitrile rubber, or Viton

s plus socks

s of the application by warning them orally and by warning signs at entrances to treated areas.

AGRICULTURAL USE REQUIREMENTS

ents in this box apply to use of this product within the scope of the Worker Protection Standard (40 CFR Part 170), plus when this product is used to produce plants on farms, forests, nurseries, or greenhouses.

near treated areas without protective clothing until sprays have dried.

STORAGE AND DISPOSAL

IS: Do not contaminate water, food or feed by storage or disposal.

Keep pesticide in original container. Do not put into food or drink containers. Protect from children.

SPSAL: Waste resulting from the use of this product should be disposed of on site or at an approved disposal site.

DISPOSAL: Triple rinse (or equivalent). Then dry or reconditioning, or puncture and dispose of in a secure container. Use triple rinse nozzles, 9001 or 9002, or by other procedures approved by state officials.

ry droplets of MALATHION will permanently damage automobile paint. Cars should not be sprayed if damage does occur, the car should be washed immediately. Consult your state experiment station or state university for proper spraying of crops.

ADDITIONAL USES: DIRECTION FOR USE: Do not use for any uses other than those specified on this label.

ADULT MOSQUITO CONTROL: Treat Shrubbery around Stagnant Pools, Marshy Areas, Ponds, and other areas. Application of this product to water is prohibited.

used undiluted in specially designed aircraft or other capable of applying ultra low volume for the uses indicated below. Aerial applications are made at a boom height of 5 feet and a spray speed of 4 to 10 mph. Mist blowers capable of producing up to 40 psi and blower sprayers are satisfactory. Use flat fan nozzles, 9001 or 9002, 30 degrees into air blast or rotary atomizers that produce an efficient spray particle with a diameter of 40 to 100 microns. Swath widths should be 30 feet, and applications should not be made at speeds exceeding 5 mph.

s with a filtered rotary air compressor, either hand driven or an air pump capable of producing 40 psi. Use air pressure on chemical cartridge metering valve and gauge for proper air flow. Pneumatic-type spray nozzles, as suggested by manufacturer should be used for spray particles with a diameter of 30 to 100 microns. Applications made when winds exceed 5 mph.

Use caterpillar, Western yellow striped armyworm, and other caterpillars. Use lower rate when larvae are small. Use higher rate when larvae are large or when alfalfa is thick. When using for control of alfalfa weevil, apply when day temperatures are above 65 degrees F, and when 50-75% of leaves are damaged. Wait 5 days for grazing or harvest. Best use is 1/2-1 pint per acre. Use lower rate when alfalfa is in bloom. Do not apply to seed alfalfa, green snap, Navy, red kidney, wax, dry, Mexican Bean Beetle, Leafhoppers, Green stink bug use 1/2 pint per acre. Apply 1 day

CORNBELT

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CYTHION ULV

ORGANO PHOSPHATE

THE PREMIUM GRADE MALATHION MALATHION ULV Concentrate

ACTIVE INGREDIENTS:
Malathion** 91.0%

INERT INGREDIENTS 9.0%

**O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate

*Cythion is a registered trademark of American Cyanamid Company

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. Call a physician.

IF ON SKIN: Wash with plenty of soap and water. Call a physician.

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

NOTE TO PHYSICIAN: This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

Before using, read the directions contained on this label or the proper methods and procedures which must be followed to achieve effective insect control and avoid permanent damage to automobile and other paint.

EPA Reg. No. 10107-21
EPA Est. No. 10107-NB-1

NET CONTENTS 1.994 LBS. (900 G)
Under the Federal Insecticide, Fungicide, and Rodenticide Act
MANUFACTURED FOR: for the pesticide
Cornbelt Chemical Co., under EPA Reg. No. P. O. Box 410 10107-21
McCook, Nebraska 69001

DIRECTIONS FOR USE

CLOVER, PASTURE, and RANGE GRASS, GRASS HAY, NON-AGRICULTURAL LAND: (wastelands, roadsides, soil bank lands.) Grasshoppers use 1/2 pint per acre. May be applied on day of harvest or grazing. Do not apply when clover is in bloom. CORN: Adult Corn Rootworm use 1/4 pint per acre. Apply before 5 days of harvest, or forage use.

GRAIN CROPS: (barley, corn, oats, rye, grain sorghum and wheat) Grasshoppers use 1/2 pint per acre. Use before 7 days of harvest or forage use and 5 days on Corn. **SUGAR BEETS:** Grasshoppers, Sugar Beet Root Maggot Adults use 1/2 pint per acre. Use before 7 days of harvest if tops are to be used as feed. **NON-AGRICULTURAL LANDS:** Beet Leafhopper (on wild host plants) use 1/2 pint per acre. No time limitations. **BEEF CATTLE - FEEDLOTS and HOLDING PENS:** Adult Flies and Mosquitoes use 6-8 ounces per acre. No time limitations.

OTHER AGRICULTURAL USES: ALFALFA, CLOVER, PASTURE and RANGE GRASS, GRASS and GRASS HAY, GRAIN CROPS, BEANS, TOMATOES and NON-AGRICULTURAL LANDS (wastelands, soil bank lands) Adult mosquitoes and flies, apply MALATHION at the rate of 2 to 4 ounces for the control of adult mosquitoes and at 6 to 8 ounces per acre for control of adult flies and mosquitoes. Repeat applications as necessary. On alfalfa, clover, pasture and range grass and grass hay, may be applied on day of harvest or grazing. Do not apply to alfalfa and clover in bloom. Do not use on seed alfalfa. On grain crops, make no application within 7 days of harvest or forage use; on corn, within 5 days of harvest or forage use; on beans and tomatoes, within 1 day of harvest.

FOR ULTRA LOW VOLUME AERIAL APPLICATION WHERE AUTOMOBILES, TRAILERS AND PLEASURE BOATS ARE PRESENT: Apply with aircraft equipped for ultra low volume application. Generally, spraying should not be attempted when the wind is at or above 10 mph or temperatures are above 82° F. Spray droplets of this product undiluted will permanently damage automobile paint unless all of the following conditions are met. 1. Aircraft is operated at 150 mph or more. 2. There are no leaks in the ultra low volume spray system. 3. Nozzles are placed on the boom at a 45 degree angle down and into the wind. 4. Diaphragm check valves are used on all nozzles to insure positive cut-off of the spray. 5. Dosage of this product does not exceed 3.2 fluid ounces per acre (4.0 acres per gallon). 6. The spray system produces droplets of this product in the 50 to 60 mass median diameter (MMD) micron range, with no more than 10% of the droplets exceeding 100 microns, as determined by readings made from microscope slides coated with Ori-Film.

GROUND APPLICATION

Thermal Aerosols or Fogs: For control of adult mosquitoes with thermal aerosols or fogs, apply CYTHION at the rate of 6-8 oz. actual/gallon (3.9-5.2 gallons CYTHION in 100 gallons finished solution) by ground equipment delivering 40 gallons per hour at a vehicle speed of 5 miles per hour to treat a swath width of 300-400 feet.

*There is a great variation in the chemical composition of fuel oils which may be used as thermal fog solvents. These differences may cause sludge and/or affect the solubility of the CYTHION. For more complete details on tests for sludge formation and solubility in thermal fog solutions, write American Cyanamid Company, One Cyanamid Plaza, Wayne, New Jersey 07470.

Nonthermal Aerosols: Over a 300-foot swath can be produced using the nonthermal ultra low volume aerosol method with CYTHION. Use the following rates at the indicated vehicle speeds:

Vehicle Speed Miles per Hour	Flow Rate of CYTHION ULV Fluid Ounces per Minute	Maximum Flow Rate per Hour
5	1.0 to 2.1 fluid ounces	1 gallon
10	2.0 to 4.3 fluid ounces	2 gallons
15	3.0 to 6.45 fluid ounces	3 gallons
20	4.0 to 8.6 fluid ounces	4 gallons

For control of adult stable fly in populated and rural areas with nonthermal aerosols of CYTHION using the ultra low volume method, use the following flow rates at the indicated vehicle speeds:

Vehicle Speed Miles per Hour	Flow Rate of CYTHION ULV Fluid Ounces per Minute	Maximum Flow Rate per Hour
5	2.1 fluid ounces	1 gallon
10	4.3 fluid ounces	2 gallons

DROPLET SIZE: 1. The Mass Median Diameter (MMD) of the droplets should not exceed 17 microns. The MMD is the drop diameter which divides the spray volume into two equal parts; i.e., 50% of the volume is in the drop sizes below the MMD and 50% is above the MMD. 2. Spray droplets should not exceed 32 microns in size. Three percent of the spray droplets (6 droplets out of 200) can exceed 32 microns providing the MMD does not exceed 17 microns and no droplets exceed a maximum of 48 microns. Larger droplets, when transported by natural air currents, impinge more readily on objects in their pathway and will permanently damage automobile-type paints. 3. More than one-half of the total spray mass must consist of droplets in the 6 to 16 micron range to achieve adequate dispersal of insecticide over a 300-foot swath. 4. A minimum of two-thirds, preferably four-fifths of the total spray mass must consist of droplets not exceeding 24 microns in range.

OPERATING EQUIPMENT: Each Nonthermal Aerosol Generator used for dispersal of CYTHION insecticide. The Premium Grade Malathion or MALATHION ULV Concentrate insecticide to control adult mosquitoes must have minimum capability of producing the droplet spectrum described under DROPLET SIZE. The initial determination of droplet size is made after the unit is installed in a vehicle and prior to its use in mosquito control operations. The unit should be rechecked as frequently as necessary to insure that proper droplet size is maintained for each operation. Determination of droplet size every two months is usually sufficient if the unit has been maintained in good operating condition. Equipment manufacturer's instructions setting forth cleaning and maintenance of the unit must be followed. The unit must be inspected before each operation to correct any leaks or obstructions in the spray system; to detach whether the nozzles, hoses, or other parts are worn and need replacement; to insure that the flow meter is properly calibrated; and to determine that the pressure recommended by the manufacturer is being maintained. **FLOW RATE** - must be regulated by accurate flow meter - not greater than 1 gallon per hour at 10 mph. **NOZZLE DIRECTION** - rear of vehicle - upward at an angle of 45 or more. **VEHICLE SPEED** - No greater than 10 miles per hour - shut off spray equipment when vehicle is stopped. **IMPORTANT** - spray droplets of undiluted MALATHION will permanently damage automobile paint unless all the conditions described and recommended on this label are met.

CONDITIONS OF SALE: 1 CORNBELT CHEMICAL CO (Cornbelt) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed hereon. Cornbelt neither makes, nor authorizes any agent or representative to make, any other warranty of FITNESS or MERCHANTABILITY, guarantee or representation, express or implied, concerning this material.

2. Critical and unforeseeable factors beyond Cornbelt's control prevent it from eliminating all risks in connection with the use of chemicals. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control, and damages caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated hereon and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Cornbelt under 1 above) resulting from handling and use of this material.

BEST AVAILABLE COPY