

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

AUG 1 9 2010

Ms Cheryl Wagner Helena Chemical Company C/O Wagner Regulatory Associates, Inc P.O Box 640 Hockessin, DE 19707

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated August 6, 2010 for:

EPA Registration 5905-527 Chlorothalonil 90 D

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on <u>nonrefillable</u> containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-5335 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

Paul Mastradone, Acting Leader

Notifications & Minor Formulations Team Leader

Registration Division (7505P) Office of Pesticide Programs

Please read instructions on reverse before comp	f="ng form.		Form	n Appro	Your OMB N	> 2070 00	60. Approval	20110
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SEPA Environme	United States				Amend	ment		
Environmental Protection A Washington, DC 20460			~ <i>'</i>					
vva:			41 11 2	<u> </u>	Other			
Company/Product Number	Application					la r	Dramanad Cl	:G4:
5905-527			EPA Product Manager Tony Kish					assification
4. Company/Product (Name)		PM	<u> </u>			_		
Chlorothalonil 90D		22 X None Restricted						
Name and Address of Applicant (Include	e Zip Code)	6.	Expedited Re	view.	In accorda	nce with f	FIFRA Section	on 3(c)(3)
Helena Chemical Company	, ,	(b)(l), my product					
c/o Wagner Regulatory Associates, Inc.			A Reg. No.					
P.O. Box 640 Hockessin, DE 19707		Pro	duct Name					
☐ Check if this is a new	v address							
	ļ	Sectior	1 - II					
Amendment - Explain below.			Final printe Agency let		s in response		mirmi <i>r</i> a Assel	A 4 8
Resubmission in response to Agency le	etter dated	<u> —</u> ["Me Too" A			NO	TIFICATI	ON
Notification - Explain below.			Other - Ex	plain be	low.	Al	UG 1 5 20	10
Explanation: Use additional page(s) if neon Notification of label change per PR Notice 2007-4156.10, 154.140, 156.144, 156.146, and 156.156 I understand that it is a violation of 18 U.S.C. Seconsistent with the requirements 40 CFR 156.10, enforcement action and penalties under Sections	4. This notification is 5. No other changes to c. 1001 to willfully ma , 156.144, 1	consistent lave been i ike any fals 56.146, an	with the provision made to the labors se statement to	eling or EPA. I t	the confiden further under	tial statem stand that	ent of formula if this notifica	of this product. tion is not
		Section	-					
1. Material This Product Will Be Package						· · · · · · · · · · · · · · · · · · ·		
Child-Resistant Packaging Unit Packag	• •	Water	Soluble Packa 1 Yes	aging	2. Type o	of Contair Metal	ner	
X No X No	-		No		 	Plastic	C	
If "Yes"	No. per	If "Yes"	No	. per	 	Glass		
* Certification must Unit Packagin	ng wgt. container	Package	e wgt cor	ntainer	 	Paper		
be submitted						Other	(Specify) HI	OPE lined bags
Location of Net Contents Information	4. Size(s) Retail (ontainer	5	. Location	of Label [Directions	
X Label Container	2.5 gal.,	5 gal., 30	gal., 55 gal.			Label		
					On	Labeling	accompanyi	ng product
6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled Otheradhesive backed label								
		Section	- IV				0	
Contact Point (Complete items directly be a contact.)		ion of indi	ividual to be c	ontacte				
Name Title Telephone No. (Include Area Code) Cheryl Wagner Agent for Helena Chemical Company (302) 234 8553						fa Code)		
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.								
Signature	3. Title	3. Title				اد در د د	. 0000	,euj
Chul Warren		t for Helena Chemical Company				(() () ()		
4. Typed Name	5. Date)					.00	o ,
Cheryl Wagner	August	6, 2010				ł	000	ຍັ



HELENA CHEMICAL COMPANY

225 Schilling Blvd., Suite 300 Collierville, Tennessee 38017 Phone: (901) 761-0050

May 3, 2010

US Environmental Protection Agency Office of Pesticide Programs 1200 Pennsylvania Ave. NW Washington, D.C. 20460

> Re: Designation of Agent for: Helena Chemical Company (EPA Company no. 5905) 664 Moore Road Memphis, TN 38120

Dear Sir or Madam:

This letter serves as notification that our company has appointed Wagner Regulatory Associates, Inc. ("WRA") to serve as Agent on our company's behalf regarding US EPA regulatory matters relative to Helena's existing registered products, products pending registration and future registration applications. WRA is based at 7460 Lancaster Pike, Suite 9, Hockessin, Delaware 19707.

Helena requests the EPA to accept registration submissions and inquiries from WRA for Helena products and authorizes the EPA to provide registration correspondence to WRA for Helena products.

Thank you for your time and assistance. Please feel free to call me at if you have any questions. This appointment will remain in effect until such time as it is revoked in writing by Helena.

Respectfully submitted,

Dave Thomas

Vice President - Marketing

cc: WRA Inc.

August 6, 2010

Document Processing Desk (NOTIF) ATTN: Mr. Tony Kish PM 22 Registration Division (7504P) U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, Virginia 22202-4501

Dear Mr. Kish:

Re: Chlorothalonil 90D

EPA Registration Number 5905-527

Notice of Revised Storage & Disposal Label Language

Wagner Regulatory Associates, Inc., on behalf of Helena Chemical Company, hereby notifies the Agency that the storage and disposal section of the subject label as been revised in accordance with PR Notice 2007-4. Enclosed for the Agency's file is:

- Letter from Helena Chemical Company authorizing Wagner Regulatory to serve as Agent

- EPA Notification form (EPA Form 8570-1)

- One copy of revised labeling

Please feel free to contact me at (302) 234-8551 if you have any questions or require additional information.

Respectfully submitted,

Cheryl Wagner

Agent for Helena Chemical Company

D#43851940flo

Wagner Regulatory Associates, Inc.

7460 Lancaster Pike, Suite 9

Hockessin, Delaware 19707

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P.O. Box 640



CHLOROTHALONIL 90D

AGRICULTURAL FUNGICIDE

ULTUKAL FUNGICIDE NOTIFICATION

(90% Water Dispersible Granules)

AUG 1 9 2010

ACTIVE INGREDIENT:	
Chlorothalonil (tetrachloroisophthalonitrile)	90.0%
INERT INGREDIENTS:	10.0%
TOTAL	100.0%

DANGER - PELIGRO

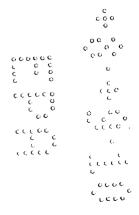
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you **Do not** understand the label, find someone to explain it to you in detail.)

	FIRST AID
IF IN EYES:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for advice.
IF ON SKIN OR CLOTHING:	 Take off contaminated clothing. Rinse immediately with plenty of water for 15- 20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED:	 Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth if possible. Call a poison control center or doctor immediately for further treatment advice.
****	HOT LINE NUMBER
	el with you when calling a poison control center or doctor, or going for treatment. -free, 1-800-424-9300 (ChemTrec).
NOTE TO PHYSICIAN: Probable	mucosal damage may contraindicate the use of gastric lavage.

EPA REG. NO. 5905-527 EPA EST. NO.

NET CONTENTS:

MANUFACTURED FOR
HELENA CHEMICAL COMPANY
225 SCHILLING BOULEVARD, SUITE 300
COLLIERVILLE, TN 38017



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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive. Causes irreversible eye damage. May be fatal if inhaled. **Do not** get in eyes or on clothing. Avoid contact with skin. **Do not** breathe dust. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are made of waterproof material. If you want more options, follow the instructions for category A on EPA chemical-resistant category selection chart.

Mixers, loaders, applicators and all other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks
- chemical resistant gloves such as or made of any waterproof material, such as polyethlene or polyvinyl chloride
- goggles or faceshield, and
- a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with any N, R, P, or HE filter.

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 CONTROLS STATEMENT

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. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates and wildlife. **Do not** apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. **Do not** contaminate water when disposing of equipment washwater or rinsate.

This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contaminate.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, or pets, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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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 statements on this 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 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 or made of any waterproof material
- shoes plus socks, and
- protective eyewear

Special Eye Irritation Provisions: This product is a severe eye irritant. Although the restricted-entry interval expires after 12 hours, for the next 6-1/2 days entry is permitted only when the following safety measures are provided:

- (1) At least one container designed specifically for flushing eyes must be available in operating condition at the WPS-required decontamination site intended for workers entering the treated area.
- (2) Workers must be informed, in a manner they can understand:
 - -- that residues in the treated area may be highly irritating to their eyes,
 - -- that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes.
 - -- that if they do get residues in their eyes, they should immediately flush their eyes using the eyeflush container that is located at the decontamination site or using other readily available clean water, and
 - -- how to operate the eyeflush container.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store in a dry place.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray, 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: Nonrefillable container. Do not refill or reuse this container. Offer for recycling, if available, or, dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CHEMIGATION

Apply this product only through center pivot, motorized lateral move, traveling gun, solid set or portable (wheel move, side roll, end tow, or hand move) irrigation system(s). **Do not** apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

Do not apply this product through irrigation systems connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly services an average of at least 25 individuals daily at least 60 days per year.

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes, or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated affeas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil

<u>Disclaimer:</u> Always refer to the label on the product before using Helena or any other product. 6Aug2010 revised storage & disposal

surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

Posting required for chemigation does not replace other posting and re-entry interval requirements for farmworker safety, including those posted to comply with the Worker Protection Standard.

All words shall consist of letters at least 2-1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

For Sprinkler Chemigation:

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind favors drift beyond the area intended for treatment.

GENERAL INFORMATION

CHLOROTHALONIL 90D is an excellent fungicide when used according to label directions for control of a broad spectrum of plant diseases.

CHLOROTHALONIL 90D can be used effectively in dilute or concentrate sprays. Thorough, uniform coverage is essential for disease control. Coverage may be enhanced by adding SURFIX® spreader-sticker spray adjuvant.

GENERAL PRECAUTIONS AND RESTRICTIONS

This product must not be applied within 150 feet (for aerial and air-blast application) or 25 feet (for ground applications) of marine/estuarine water bodies unless that there is an untreated buffer area of that width between the area to be treated and the water body.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements **Do not** apply to forestry applications, public health uses or to applications using dry formulations.

- 1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information, &

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

This section is advisory in nature and does not supersede the mandatory label requirements.)

INFORMATION ON DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly, or under unfavorable conditions (see Wind, Temperature).

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CONTROLLING DROPLET SIZE

- Volume -- Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure **Do not** exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drip potential.

BOOM LENGTH

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT

When applications are made with crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, small drops, etc.).

WIND

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas:

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known for habitat for threatened or endangered species, non-target crops) in minimal (e.g., when wind is blowing away from sensitive areas).

Do not use on greenhouse-grown crops.

Do not combine in the spray tank with pesticides, surfactants, or fertilizers, unless your prior use has shown the combination physically compatible, effective, and non-injurious under your conditions of use. When combining with pesticides, surfactants, or fertilizers, refer to the labeling on the product that CHLOROTHALONIL 90D is being mixed with for specific tank mix instructions.

Do not combine with Dipel® 4L, Triton® AG-98, or Triton® B-1956 as phytotoxicity may result from the combination when applied to some crops on this label.

Dosage rates on this label indicate pounds of CHLOROTHALONIL 90D per acre, unless otherwise stated. Under conditions favoring disease development, the high rate specified and shortest application interval should be used.



The required amount of product should be added slowly into the spray tank during filling. With concentrate sprays, pre-mix the required amount in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations.

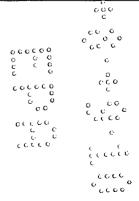
APPLICATION INSTRUCTIONS

FIELD AND ROW CROPS

Apply in sufficient water to obtain adequate coverage of foliage. Gallonage to be used will vary with crop and amount of plant growth. Spray volume usually will range from 20 to 150 gallons per acre (200 to 1400 liters per hectare) for dilute sprays and 5 to 10 gallons per acre (50 to 100 liters per hectare) for concentrate ground sprays and aircraft applications. Both ground and aircraft methods of application are recommended unless specific directions are given for a crop. Application through sprinkler irrigation systems is not recommended unless specific directions are given for a crop.

See application and calibration instruction below:

Crop	Pre-Harvest Interval (PHI)	Disease	Rate/Acre	Special Directions	
Beans (Snap)	7 days	Rust	1χ-21/2 lbs.	Use in sufficient water to obtain adequate coverage.	
				Begin applications during early bloom stage or when disease first threatens and repeat at 7 day intervals.	
		Botrytis blight(grey mold)	2 ½ lbs.	Same as above.	
				st treatment. 9 lbs. a.i.) per acre per season.	
		Grazing Restrictions: Do not graze treated areas or feed	treated plant parts	to livestock	
Beans (Dry)- Navy, Pinto, Kidney, Lima,	6 weeks	Rust Anthracnose	1χ-1¾ lbs.	Use in sufficient water to obtain adequate coverage.	
Blackeye		Downy Mildew Cercospora leaf spot (Blackeye only)		Begin applications during early bloom stage or when disease first threatens and repeat at 7 to 10 day intervals.	
		(Siddho) o dhiyy		For use on beans harvested only with pods removed.	
		Limitations: - Do not re-apply this product within 7 days of last treatment. - Do not apply more than 6 β lbs. of this product (6 lbs. a.i.) per acre per season. Grazing Restrictions: Do not graze treated areas or feed treated plant parts to livestock.			
Cabbage, Chinese Cabbage (tight headed varieties only), Cauliflower, Broccoli, Chinese Broccoli, Brussels Sprouts	7 days – for Chinese Broccoli or Chinese Cabbage only	Alternaria leaf spot Downy mildew	1¼ lbs.	Use in sufficient water to obtain adequate coverage. Begin applications after transplants are set in field, or shortly after emergence of field-seeded crop, or when conditions favor disease development. Repeat at 7 to 10 day intervals.	
		Ring spot (California only)	1½ lbs.	For field-seeded brussels sprouts, begin applications at time of early sprout development or when conditions favor disease development.	
		Limitations: - Do not apply more than 13α lbs	of this product (12	Repeat at 7 to 10 Day intervals.	
Carrot		Cercospora (early) blight Alternaria (late) blight	1¼-1½ lbs.	Use in sufficient water to obtain adequate coverage. Start applications when disease threatens and repeat at 7 to 10 day intervals.	
				May be applied through sprinkler irrigation equipment. See calibration section following this table for directions.	
		Limitations: - Do not re-apply this product - Do not apply more than 168		st treatment. (15 lbs. a.i.) per acre per season.	



Crop	Pre-Harvest Interval (PHI)	Disease	Rate/Acre	Special Directions
Celery	7 days	Cercospora (early) blight Setporia (late) blight	φ-1¼ lbs.	Use φ-2½ lbs. per acre on a 7 day schedule.
				Start applications when transplants are set in the field.
				Apply in sufficient water to obtain adequate coverage.
				May be applied through sprinkler irrigation equipment. See calibration section following this table for directions.
		Basal stalk rot (Rhizoctonia solani)	13/4-21/2 lbs.	Same as above
		Pink rot (suppression)	21/2 lbs.	Same as above
		Early blight, Late blight	1¼ -1½ lbs. per 100 gallons	For celery seed beds, apply 125 gallons per acre.
				Start applications shortly after crop emergence.
		Limitations:	<u> </u>	Use higher rate under severe disease conditions.
		- Do not re-apply this produ	uct within 7 days of las 7 7/9 lbs. of this produ	t treatment. ct (18 lbs. a.i.) per acre per season.
Corn (sweet), Corn	14 days	Helminthosporium leaf	ε- 1½ lbs.	Use in sufficient water to obtain adequate coverage.
grown for seed		blights Rust		Begin applications when conditions favor disease development.
				Under severe disease conditions, use 11/4-11/2 lbs. per acre.
		Limitations: - Do not re-apply this production - Do not apply more than 1: - Do not apply to sweet core Grazing Restrictions: - Do not allow livestock to company to the company to sweet core or company to the company to the company the company that the comp	0 lbs. of this product (some to be processed. graze in treated fields.	3 lbs. a.i.) per acre per season.
Cranberry	50 days		3½-5½ lbs.	Apply at early bloom and repeat at 10 to 14 day intervals.
		Lophodermium leaf/twig blight		Under severe disease conditions, use the 5½ lbs. per acre rate on a 10 day schedule.
				May be applied through sprinkler irrigation equipment. Use 300 gallons of water per acre through solid set systems only. See calibration section following this table for directions.
		Limitations: - Do not apply more than 1	6β lbs. of this product	(15 lbs. a.i.) per acre per season.
		Do not apply to bogs when floor	ded or allow release of	irrigation water from bogs for at least 3 days following application.
Cucurbits – Cucumber, Cantelope, Muskmelon,	-	Anthracnose Downy mildew Target spot	1¼-1½ lbs.	Use in sufficient water to obtain adequate coverage. Begin applications when plants are in first true leaf stage or when conditions are favorable for disease development.
Honeydew melon, Watermelon,				Repeat applications at 7 day intervals.
Squash, Pumpkin				Under severe conditions, shorten spray interval.
				May be applied through sprinkler irrigation equipment (solid set, portable wheel move, or center pivot systems only). See calibration direction following this table.
		Cercospora leaf spot Gummy stem blight (black rot)	1½-2½ lbs.	Same as above.
		Alternaria leaf blight Scab		600
		Powdery Mildew (Sphaerotheca only)		C C C C C C C C C C C C C C C C C C C
		Cucumber belly rot	7 lbs.	Use in sufficient water to octain runoff to soil surface.
		(Rhizocatonia solani)		Make a single application when vines begin to form.
		,		May be applied through springler irrigation. Ses calibration section following this table for directions.

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Сгор	Pre-Harvest Interval (PHI)	Disease	Rate/Acre	Special Directions		
Grasses grown for	14 days	Stem rust	φ-1β lbs.	Use sufficient coverage to obtain adequate coverage.		
seed		Leaf rust Stripe rust Septoria leaf spot		Begin applications during stem elongation when conditions favor disease development.		
		Glume blotch Bipolaris leaf spot Drechslera leaf spot		Re-apply at flag (top) leaf emergence and repeat applications at 14 day intervals.		
		Selenophoma (eyespot)	φ-1β lbs.	Same as above.		
		Limitations:		5 lbs. a.i.) per acre per season.		
		Grazing Restrictions:	, ,			
Mint	80 days	- Do not allow livestock to		or feed treated plants to livestock.		
(For use <u>ONLY</u> in Indiana, Michigan,	ou days	Septoria leaf spot	1 _χ lbs.	Use sufficient coverage to obtain adequate coverage. Begin applications when emerging plants are 4-8 inches high.		
and Wisconsin)				Repeat applications at 7 to 10 day intervals.		
		Limitations: - Do not re-apply within 7		1 - Open appropriate at the start mentals		
	l	- Do not apply more than		stad Galda ta livestant.		
Onion (dry bulb)	7 days	Do not feed fresh or ext Botrytis leaf blight/blast	d-1¾ lbs.	Apply in sufficient water to obtain thorough coverage of tops.		
Cilion (dry build)	, uayo	Botrytris neck rot (suppression)	'	This product is recommended for use with disease monitoring		
		Purple blotch	Low Disease Hazard & Prior to	systems, which adjust fungicide rates and frequency of application		
	†	· .	Infection: φ lbs.	according to disease hazard. See application rates in Rate/Acre		
	3		(Every 10 days)	section under these conditions.		
			Low Disease	For suppression of neck rot (Botrytis spp) during storage, a minimum		
			Hazard & Some	of three weekly applications prior to lifting, using 1χ -1% lbs. per acre is recommended.		
			Disease Present: 1χ lbs. (Every 7 to	is recommended.		
			10 days)			
			High Disease			
			Hazard: 1¾ lbs. (Every 7 days)			
		Limitations:		45 lba a : \ nor are no accord		
Onion (green	14 Days	Botrytis leaf blight/blast	1χ-2¼ lbs.	15 lbs. a.i.) per acre per season. Use sufficient water to obtain thorough coverage of tops.		
bunching), Leeks,	,	Downy mildew	1,2,1,1,1,1			
Shallots, Onion grown for seed	1	(suppression) Purple blotch		Begin applications prior to favorable infection periods, and repeat at 7 to 10 day intervals as long as conditions favor disease.		
grown for seed		r diple bloton				
Garlic	7 days			Use the high rate and a 7 day schedule of applications when heavy dew or rain persists.		
		v		If additional disease control is needed before harvest, use another registered fungicide.		
		Limitations:				
		- Do not apply more than	3 times per season for g	green bunching onions, leeks, and shallots.		
Papaya	-	Alternaria fruit spot Antracnose Stem end rot	11/4 -21/2 lbs.	Apply with ground equipment only, in sufficient water to obtain adequate coverage on fruit and leaves.		
		Stelli end lot		Begin treatment when conditions favor development of disease and continue treatments at 14 day intervals until weather conditions no		
		Limitations	<u></u>	longer favor disease development.		
		Limitations: - Do not apply more than	7% lbs. of this product (6.75 lbs. a.i.) per acre per season.		
		Grazing restrictions:		ې د د د د د د د د د د د د د د د د د د د		
Darenin	10 days	Do not graze livestock in tre Alternaria leaf spot	ated area or feed proces 1χ-1β lbs.	ssing by-products to lives(ock) c c c c c c c c c c c c c c c c c c		
Parsnip	i io days	Antracnose	1X-1p ibs.	000		
		Downy mildew		Make the first application at the tirst sign of disease or when		
		Botrytis blight(grey mold) Bottom rot (Rhizoctonia)	Y	conditions are favorable for infections.		
		Bottom fot (Milzoctofila)	}	Continue applications on a continue application a continue applications on a continue application a continue a continue application a continue a continu		
	1	Limitations:		00000		
		- Do not apply more than 6 β lbs. of this product (6.0 lbs. a.i.) per acre per season. - Do not apply more than 4 times per season.				
		 Do not apply more than 	4 times per season.			
		- Do not apply more than Grazing restrictions: - Do not feed treated plant pa	·	((c)		

gard (pasciol that provided that the provided of the provided	Crop	Pre-Harvest Interval (PHI)	Disease	Rate/Acre	Special Directions
Limitations:		-	spot (passion fruit	1½ lbs.	Apply with ground equipment only, in sufficient water to obtain adequate coverage on fruit and leaves.
Limitations: - Do not apply more than 8% its. of this product (7.5 fbs. a.1) per some per season. Grazing restrictions: - Do not apply limits to bested in the bested area or feed processing by products to fivestock. Corcospordium (table) Carcospordium (table) Leaf spot Rust Rust Web blotch Limitations: - Do not expayly within 14 days of last treatment. - Do not expayly within 14 days of last treatment. - Do not expayly more than 10 lbs. of this product (9 lbs. a.1) per acre per season. Grazing restrictions: - Do not expayly within 14 days of last treatment. - Do not perform the season of the product (9 lbs. a.1) per acre per season. Grazing restrictions: - Do not expayly within 14 days of last treatment (Southern) Varieties Country of the season of the season of the product (9 lbs. a.1) per acre per season. Grazing restrictions: - Do not depayly more than 10 lbs. of this product (9 lbs. a.1) per acre per season. Grazing restrictions: - Do not depayly within 14 days of last treatment (Southern) Varieties Country of the season of the season of the product (9 lbs. a.1) per acre per season. Grazing restrictions: - Do not depayle and season in treated area. - Anthristones - Do not perform the season of the product (9 lbs. a.1) per acre per season. Grazing restrictions: - Do not expayly within 14 days of last treatment. - Do not perform the season of the performance of the					Begin treatment when fruit spots appear (April to July) and continue treatments at 14 day intervals until weather conditions no longer favor disease development.
Peanut 14 days Coccopor (early) get of the coccopor (ear			- Do not apply more than 8	3½ lbs. of this product (
Coccessorie (early)leaf spot 1-11% lbs. Apply in sefficiant water for adequate coverage when leaf was spot spot spot 1-11% lbs. Apply in admitised coverage when leaf was spot spot spot 1-11% lbs. Apply in admitised coverage when leaf was spot spot spot spot spot spot spot spo				ted area or feed proces	ssing by-products to livestock.
When late leaf spot prevails or when rust or web blotch occur 1/3 be, per area. Rust Web blotch 11/4 be. Same as above. Limitations: Do not a exply within 14 days of last treatment. Do not only prome than 10 be. of this product (6 bb. a.i.) per scree per season. Crazing on not graze hieratoris, in treated area. Do not the high or or threahing from treated fields to livestock. Do not the high or threahing from treated fields to livestock. Anthronose Deportment of the high or threahing from treated fields to livestock. Anthronose Deportment of the high or threahing from treated fields to livestock. Anthronose Deportment of the high or threahing from treated fields to livestock. Anthronose Deportment of the high or threahing from the add fields to livestock. Anthronose Deportment of the high or threahing from the add fields to livestock. Anthronose Deportment of the high or threahing from the add fields to livestock. Anthronose Deportment of the high or threahing from the add fields to livestock. Anthronose Deportment of the high or threahing from the high or the high o	Peanut	14 days	Cecospora (early)leaf spot Cercosporidium (late)		Apply in sufficient water for adequate coverage when leaf wetness first occurs and before disease symptoms appear, generally 30 to 40
Rust Web bloch Limitations: De not opply within 14 days of last treatment. De not apply within 14 days of last treatment. De not papel more than 10 bs. of this product (\$1 bs. a.i.) per acre per season. Grazing restrictions: De not forgaze intestock in treated area. De not forgaze intestock in treated area. Description of the company			•		When late leaf spot prevails or when rust or web blotch occur, apply 11/4 lbs. per acre.
Web blotch Limitations: Denot re-apply within 14 days of last treatment. Denot re-apply within 15 days of last treatment. Denot re-apply within 16 days of last treatment. Denot re-apply within 16 days of last treatment. Denot feed bey or threathings from treated faileds to levestock. Anthracross. Denot feed bey or threathings from treated faileds to levestock. Anthracross or program) Determinate (Southern) Varieties Soybean Determinate (Southern) Varieties Corcospora solitichil) Septora brown Septora brown Septora brown Septora brown Sitem canker (Diaporthe phaseolorum vac.caulivora) Limitations: Denot re-apply within 14 days of last treatment. Denot re-apply within 14 days of last prediction, make additional applic at 14 day intervals. Denot re-apply within 14 days of last prediction or allow grazing in treated fields. Anthracross or last plight (Corcospora skind) Depot feed red related plant pers to levestod or allow grazing in treated fields. Anthracross (Kichil) Septora brown Soybean Depot feed related plant pers to levestod or allow grazing in treated fields. Anthracross (Richil) Septora brown Limitations: Limitations: Limitations: Limitations: Limitations: Limitations: Limitations: Limitations: Limitations:			Puet	11/ lho	calibration section following this table for directions.
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Use three application program in areas having a history of m to severe disease intensity.	Determinate	-	Diaporthe pod and stem	(2 application	Apply in sufficient water to obtain complete coverage, using at least five gallons of water per acre for aerial application.
Cercospora kikuchii) Septora brown Application program California	(country turious)	·	Frogeye leaf spot (Cercospora sojina)	ōt	Use three application program in areas having a history of moderate to severe disease intensity.
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Stem canker (Diaporthe phaseolorum var.caulivora) beginning of flowering (R1), and the second at seed formatio Apply in 10 to 20 gallons of water per acre, as a band treatm directing spray to provide coverage of entire plant.					Two application program: Make the first application at early pod set (R3) stage, when majority of pods are χ to δ inch in length and the second at beginning of seed formation (R5) which occurs about 14 days later.
Digital program Cercospora lad blight Cercospora lad lad lad lad lad lad lad lad lad la			Stam canker (Diagosthe	A lbc	Three application program: Make the first application at the beginning of flowering (R1), and the second at seed formation (R5). Apply in 10 to 20 gallogs of water per acre as a hand treatment.
Limitations: Do not re-apply within 14 days of last treatment. Do not apply more than 5 lbs. of this product (4.5 lbs. a.i.) per acre per season. Grazing restrictions: Do not feed treated plant parts to livestock or allow grazing in treated fields. Anthracnose Diaporthe pod and stem blight Frogeye leaf spot (Cercospora soljina) Purple seed stain Cercospora leaf blight (Cercospora kikuchii) Septora brown If conditions favor continued infection, make additional application at 14 day intervals. If conditions favor continued infection, make additional application at 14 day intervals. If conditions favor continued infection, make additional applications: 14 days intervals. If conditions favor continued infection, make additional application at 14 day intervals. If conditions favor continued infection, make additional applications: 14 days intervals. If conditions favor continued infection, make additional applications: 14 days intervals. If conditions favor continued infection, make additional applications: 14 days intervals. If conditions favor continued infection, make additional applications: 14 days intervals. If conditions favor continued infection, make additional applications: 14 days intervals. If conditions favor continued infection, make additional applications: Apply in sufficient water to obtain complete coverage, using in treated fields. Apply in sufficient water to obtain complete coverage, using in treated fields. Apply in sufficient water to obtain complete coverage, using in treated fields. Apply in sufficient water to obtain complete coverage, using in treated fields. Apply in sufficient water to obtain complete coverage, using in treated fields. Apply in sufficient water to obtain complete coverage, using in treated fields. Apply in sufficient water to obtain complete coverage, using in treated fields. Apply in sufficient water to obtain complete coverage, using in treated fields. Apply in sufficient water to obtain complete coverage, using in treated fields. Apply in				φ ιυς.	directing spray to provide coverage of entire plant.
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Cercospora leaf blight (Cercospora kikuchii) Septora brown (3 application program) May be applied through sprinkler irrigation equipment. See calibration section following this table for directions. Two application program: (Make the first application at earlier set (R3) stage, when majority of gods are χ to δ inch in length the second at beginning of seed formation (R5) which occurs 14 days later. Three application program: Make the first application at the beginning of flowering (R1), and the second at seed formation. Limitations:	, , , , , , , , , , , , , , , , , , , ,		Frogeye leaf spot (Cercospora sojina)	<u>or</u>	1
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beginning of flowering (R1), and the second at seed formation					set (R3) stage, when majority of gods are χ to δ inch in length and the second at beginning of seed formation (R5) which occurs about 14 days later.
			1:14-41		beginning of flowering (R1), and the second at seed formation (R5).
- Do not apply within 14 days of last treatment. - Do not apply more than 5 lbs. of this product (4.5 lbs. a.i.) per acre per season. Grazing restrictions: Do not feed treated plant parts to livestock or allow grazing in treated fields.			- Do not re-apply within 14 - Do not apply more than 5 Grazing restrictions:	5 lbs. of this product (4.	5 lbs. a.i.) per acre per season. ຜິດເວັດ ດູດວັດ

Crop	Pre-Harvest Interval (PHI)	Disease	Rate/Acre	Special Directions
Tomato – Foliage	-	Early blight Late blight	1χ -1¾ lbs.	Apply in sufficient water to obtain adequate coverage.
		Gray leaf spot Gray leaf mold		Begin applications when dew or rain occur and disease threatens.
		Septoria leaf spot Target spot		Use highest and shortest interval specified when disease conditions are severe.
				May be combined with EPA-registered products that claim copper as the active ingredient and are labeled for control of bacterial diseases of tomatoes.* Check the manufacturer's label for specific instructions, precautions, and limitations prior to mixing.
				May be applied through sprinkler irrigation equipment (solid set or portable wheel move systems only). See calibration section following this table for directions.
Tomato- Fruit	-	Anthracnose Alternaria fruit spot (black mold) Rhizoctonia fruit rot Late blight fruit rot Botrytis gray mold	1¼ -2¼ lbs.	Same as above.
		Limitations: - Do not apply more the Do not use with Cop Grazing restrictions:	per Count® N in concent	duct (15.1 lbs. a.i.) per acre per season. trated spray suspensions. trated by-products to livestock.

CALIBRATION TECHNIQUES FOR SPRINKLER IRRIGATION

CHLOROTHALONIL 90D may be used through two basic types of sprinkler irrigation systems as outlined in Sections A and B below. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

Always inject CHLOROTHALONIL 90D into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides into the intake line on the suction side of the pump.

A. Center Pivot, Motorized Lateral Move, and Traveling Gun Irrigation Equipment

For injection of pesticides, these continuously moving systems must use a positive displacement injection pump, of either diaphragm or piston type, constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock and capable of injection at pressures approximately 2-3 times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems.

Fill chemical supply tank of injection equipment with water. Operate system for one complete revolution or run across the field, measuring time required, amount of water injected, and acreage covered. Thoroughly mix recommended amount of CHLOROTHALONIL 90D for acreage to be covered into the same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until product has been cleared from last sprinkler head.

B. Solid Set and Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Irrigation Equipment

With stationary systems, an effectively designed in-line venturi applicator unit is preferred which is constructed of materials that are compatible with pesticides; however, a positive-displacement pump can also be used.

Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered with water so that the total mixture plus water in the injection tank is equal to the quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Agitation is recommended. CHLOROTHALONIL 90D can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after transment is completed and continue to operate irrigation system until product as been cleared from last sprinkler head.

TREE AND ORCHARD CROPS

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Apply CHLOROTHALONIL 90 in sufficient water and with proper calibration to obtain uniform coverage of tree canopy. Application with ground equipment is preferable to aerial application, because ground applications generally give better coverage of the tree canopy.

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Crop	Pre-Harvest Interval (PHI)	isease	Rate/Acre	Rate/ 100 gailons	Special Directions
Peach Nestarine Apficot Tart Cherry Plum Prune		Leaf curl Coryneum blight (shothole)	2½-3½ lbs.	φ-1χ lbs.	For best control of both diseases, apply at leaf fall in late autumn, using sufficient water and proper sprayer calibration to obtain uniform coverage. When conditions favor high disease levels, use the high rate of application and apply once or twice more in mid to late winter
					before budswell. If the leaf fall application is not practical, application for control of leaf curl may be made at any time prior to budswell the following spring. Where Comeum blight (shothole) occurs, apply at budbreak to
					protect newly emerging leaves and at shuck split to prevent fruit infections.
		Brown rot blossom blight Lacy (russet) scab (plum/prune)	2½-4½ lbs.	φ-1χ lbs.	Use 3½-4½ per acre on trees taller than 20 ft. and 2½-3½ per acre on smaller trees. Make one application at popcom (pink, red, or early white bud) and a second application at full bloom.
					If weather conditions favor disease development, make an additional application at petal fall.
		Limitations: - Do not re-apply this prod - Do not apply more than Grazing Restrictions: Do not graze treated areas or f	10 lbs. of this product (9 lbs. a.i.) per acre per	season.

If application with ground equipment is not feasible, product may be applied with aircraft using at least 20 gallons per acre. When concentrate sprays are used or when treating non-bearing or immature trees, the lower rate listed may be used. **Do not** allow livestock to graze in treated areas.

The following spray volumes are recommended as gallons of spray per acre:

CROP	SPRAY VOLUME (Gallons per acre)
Peach	20 (concentrate) – 300 (Full Dilute)
Nectarine	20 (concentrate) – 300 (Full Dilute)
Apricot	20 (concentrate) – 300 (Full Dilute)
Tart Cherry	20 (concentrate) – 300 (Full Dilute)
Plum	20 (concentrate) – 300 (Full Dilute)
Prune	20 (concentrate) – 300 (Full Dilute)
Sweet Cherry	20 (concentrate) – 300 (Full Dilute)

CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the environment description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helana Chemical Company's election, one of the following:

- 1. Refund of the purchase price paid by buyer or user for product bought, or
- 2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect pincidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller of this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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